

# KENWOOD

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**On the Block diagram, backup data, Initial state and system microprocessor, refer to the KRF-V5010 service manual (B51-5425-00)**

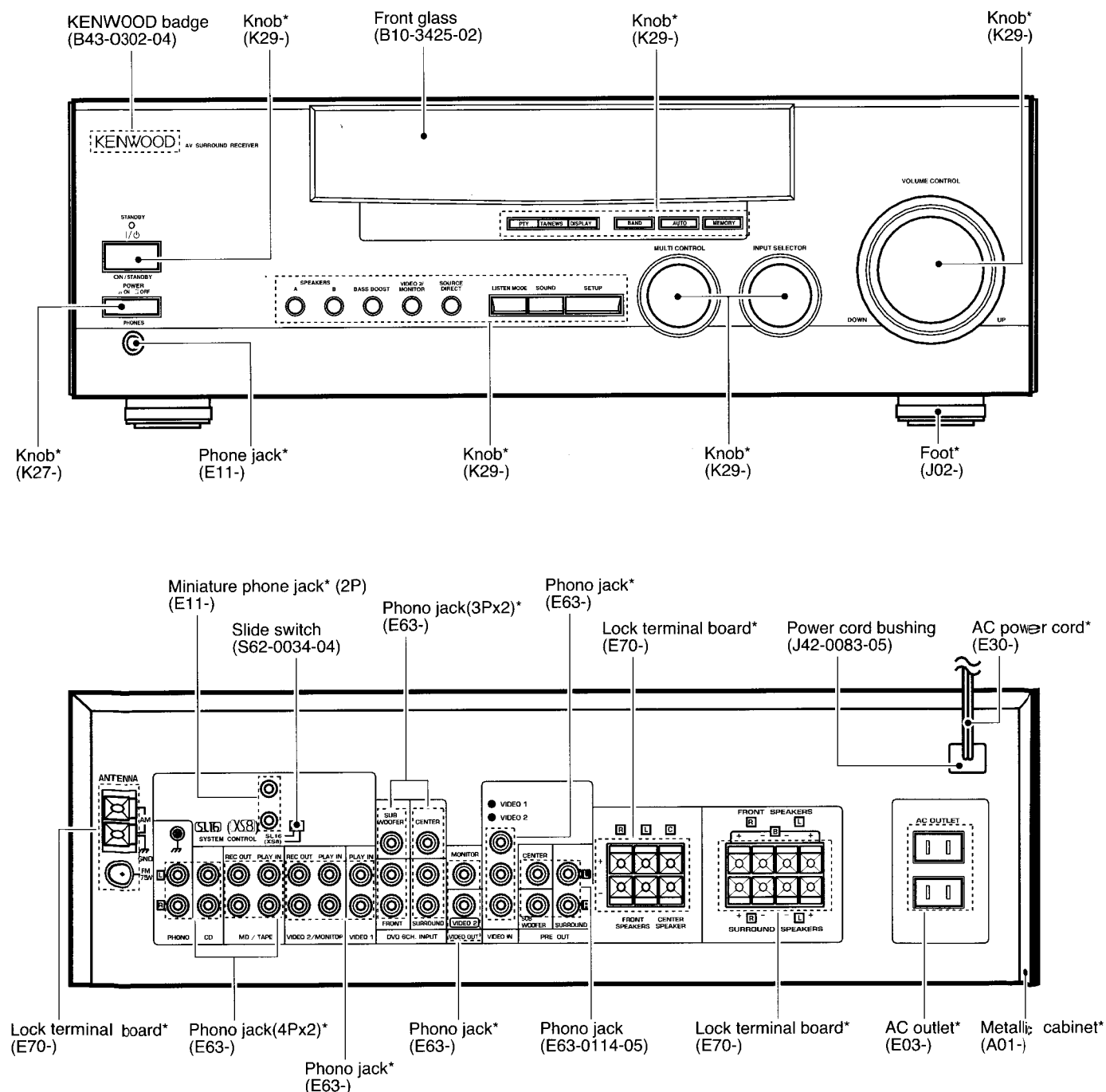


Illustration is KRF-V5020.

\* Refer to parts list on page 23~.

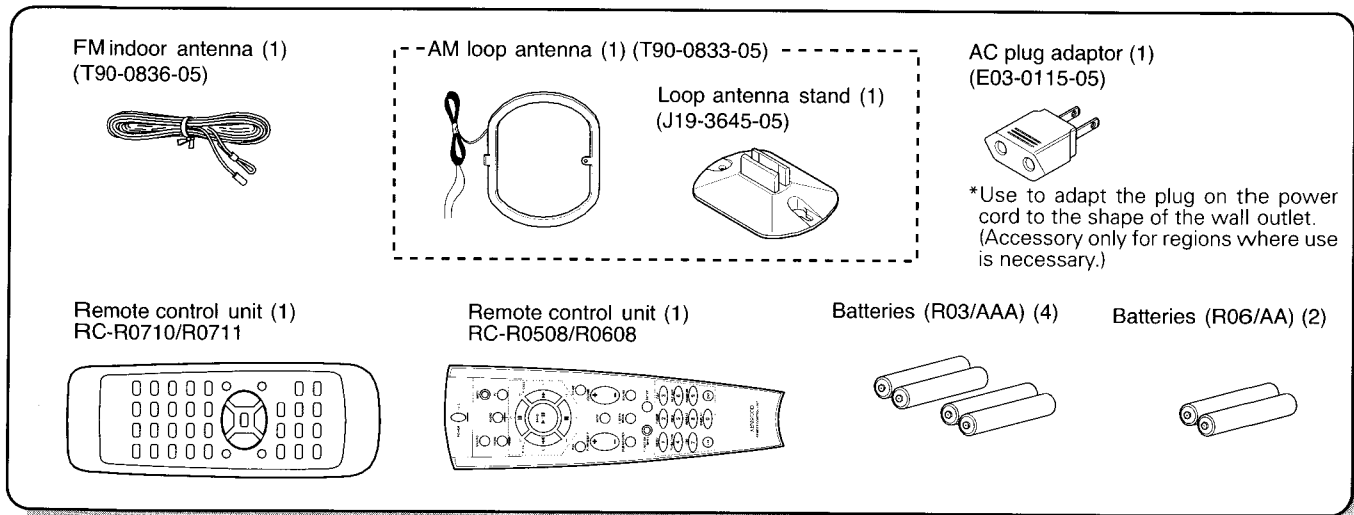
# KRF-V5020/V6020/V7020/VR-305/306/355

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### Accessories



### Model name vs remote controller

Model	Destinations	Remote Controller		
		Parts number	Model name	Battery Cover
KRF-V5020	I5, M5, X5, Y5	A70-1264-05	RC-R0711	A09-1123-08
KRF-V5020	E1	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020	T5	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020(S)	E2	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020E	E3	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020W	Q5	A70-1265-05	RC-R0710	A09-1123-08
KRF-V6020	C6, I6, M6, X6	A70-1264-05	RC-R0711	A09-1123-08
KRF-V6020	E4	A70-1275-05	RC-R0508	A09-0366-08
KRF-V6020E	E5	A70-1265-05	RC-R0710	A09-1123-08
KRF-V6020W	Q6	A70-1265-05	RC-R0710	A09-1123-08
KRF-V7020	E7, T7	A70-1275-05	RC-R0508	A09-0366-08
KRF-V7020E	E8	A70-1275-05	RC-R0508	A09-0366-08
KRF-V7020W	Q7	A70-1275-05	RC-R0508	A09-0366-08
VR-305	K2, P2	A70-1264-05	RC-R0711	A09-1123-08
VR-306	K1, P1	A70-1264-05	RC-R0711	A09-1123-08
VR-355	K3, P3	A70-1271-05	RC-R0608	A09-0366-08

### Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

For U. S. A. and Canada

Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

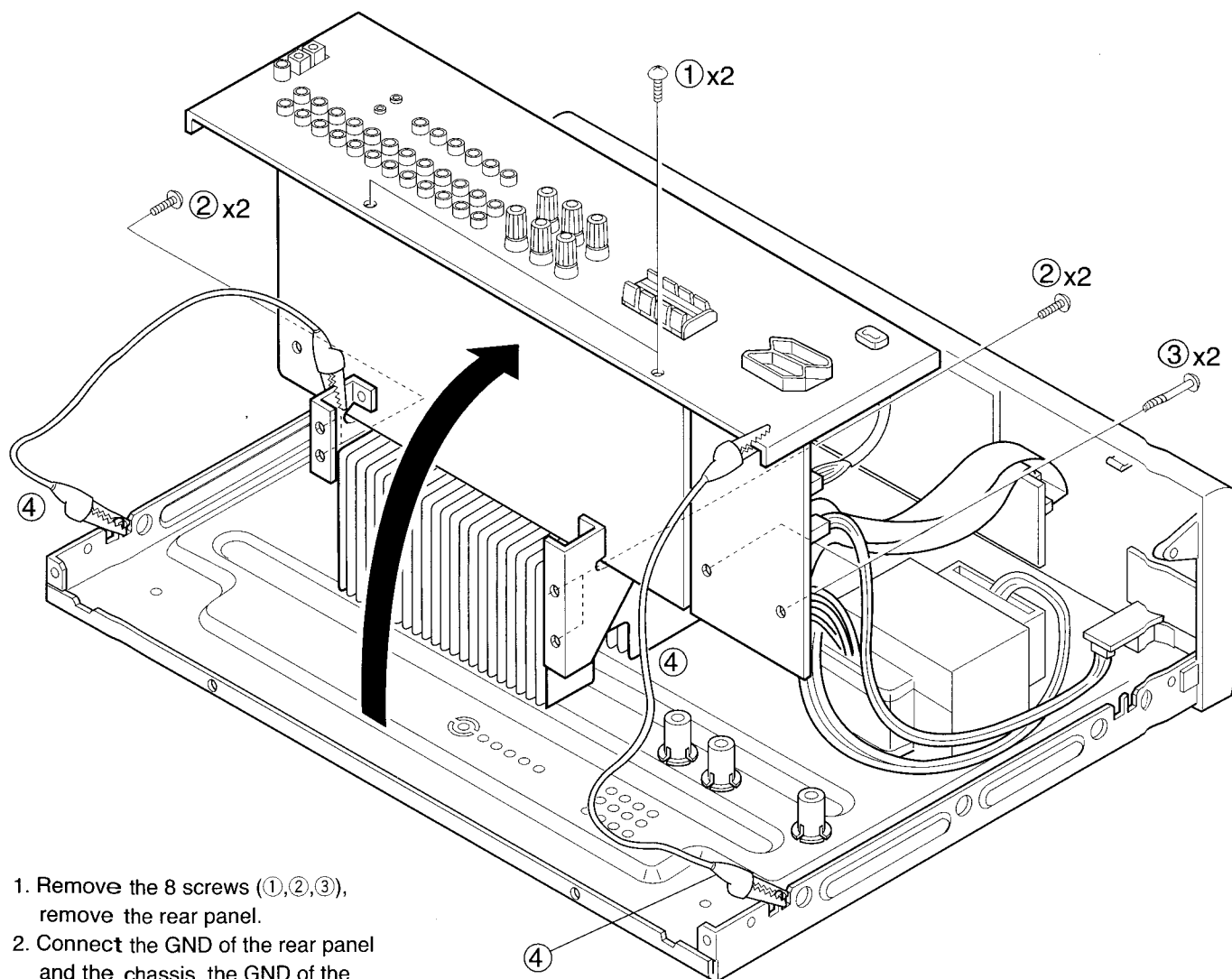
For other countries

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

• Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

# KRF-V5020/V6020/V7020/VR-305/306/355

## DISASSEMBLY FOR REPAIR



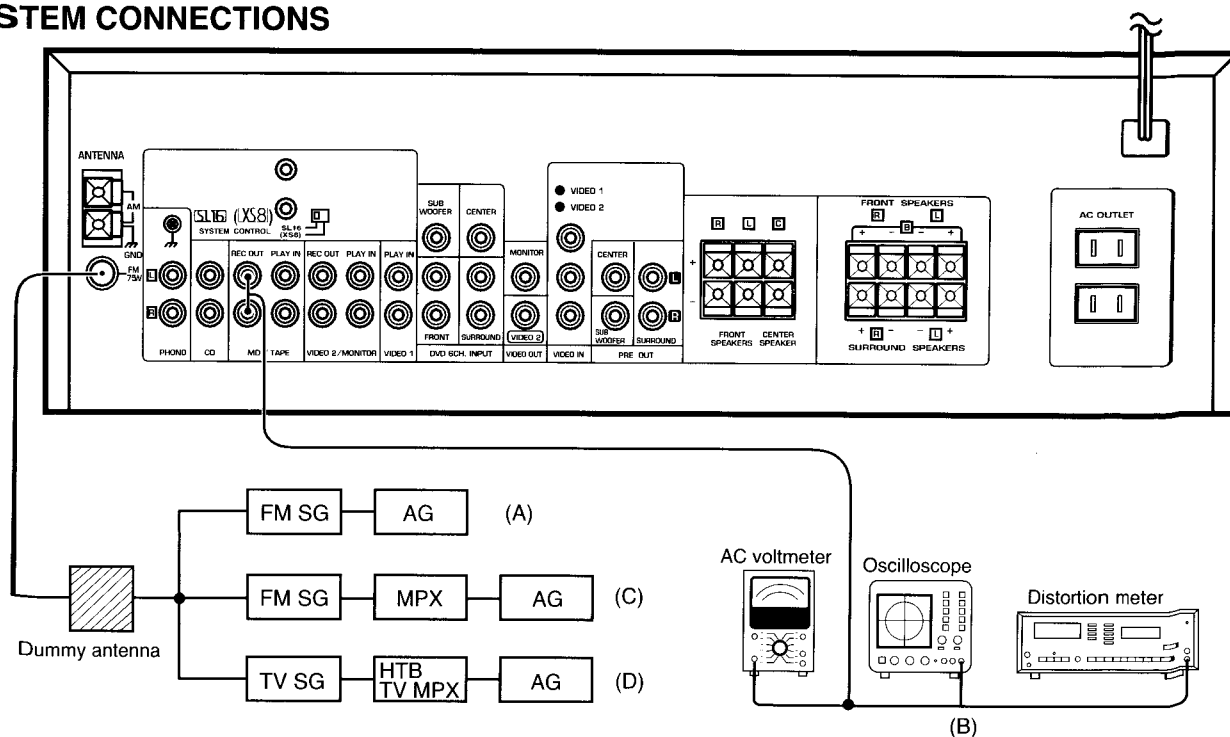
1. Remove the 8 screws (①,②,③), remove the rear panel.
2. Connect the GND of the rear panel and the chassis, the GND of the mounting hardware and the chassis with 2 alligators clip (④)

# KRF-V5020/V6020/V7020/VR-305/306/355

## ADJUSTMENT

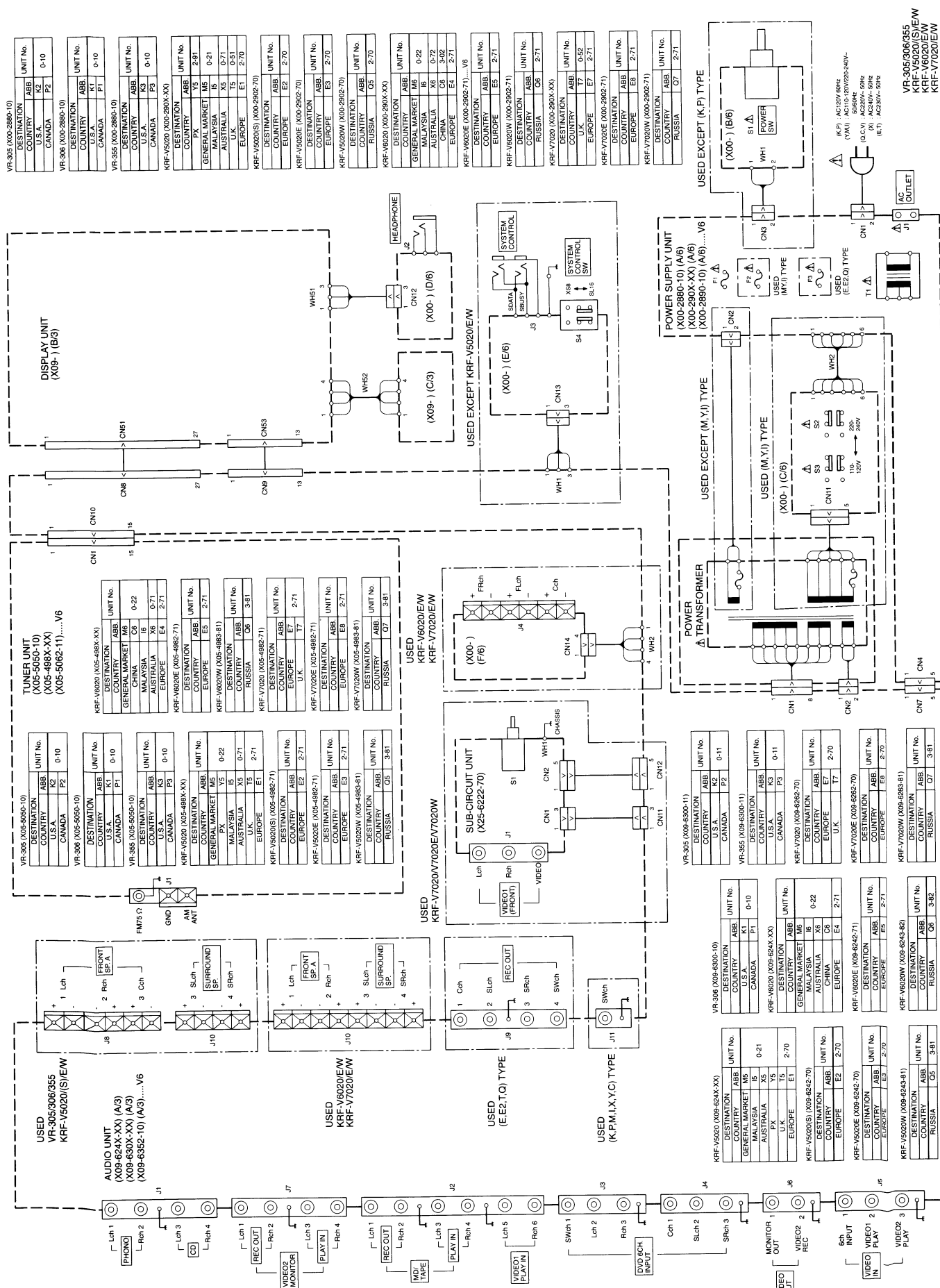
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION : EXCEPT E,T,Q type</b>		<b>SELECTOR : FM</b>					
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 68.25\text{kHz}$ dev. Selector : L or R Pilot : $\pm 6.75\text{kHz}$ dev. 70dBf (ANT. input)	(B)	98.0MHz	IFT (TUNER UNIT: A1)	Minimum distortion (L or R)	
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, $\pm 75\text{kHz}$ dev. 25dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (TUNER UNIT)	Adjust VR1 and stop at the point where ED51 (TUNED) goes on.	
<b>FM SECTION : E,T,Q type only</b>		<b>SELECTOR : FM *Adjust NO.1 and NO.2 repeat.</b>					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 40\text{kHz}$ dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN2 ① and CN2 ② (TUNER UNIT)	MONO 98.0MHz	L4 (TUNER UNIT)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, $\pm 40\text{kHz}$ dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (TUNER UNIT)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 40\text{kHz}$ dev. Selector : L or R Pilot : $\pm 6\text{kHz}$ dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (TUNER UNIT : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, $\pm 40\text{kHz}$ dev. 29dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (TUNER UNIT)	Adjust VR1 and stop at the point where ED51 (TUNED) goes on.	

## SYSTEM CONNECTIONS



KRF-V5020/V6020/V7020/VR-305/306/355

# WIRING DIAGRAM

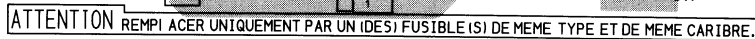


1

3



AC220-240V ← → AC110-120V

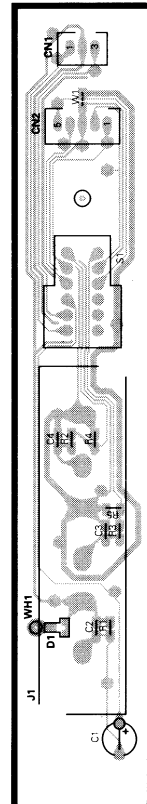


*MC-Service*



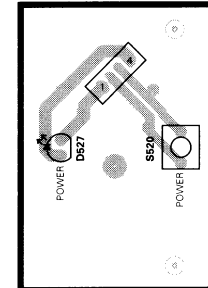
# PC BOARD(Component side view)

X25-6222-70  
(J70-1296-01)

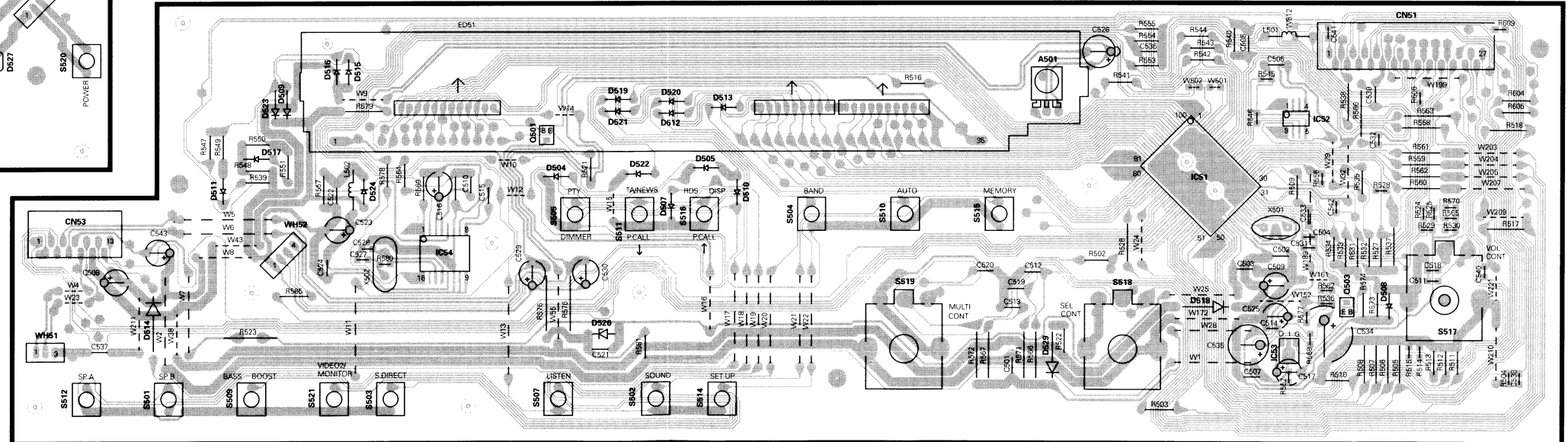


X09-6242-70/X09-6352-10 (A/3)

X09 C/3



X09 B/3



Refer to the schematic diagram for the value of resistors and capacitors.

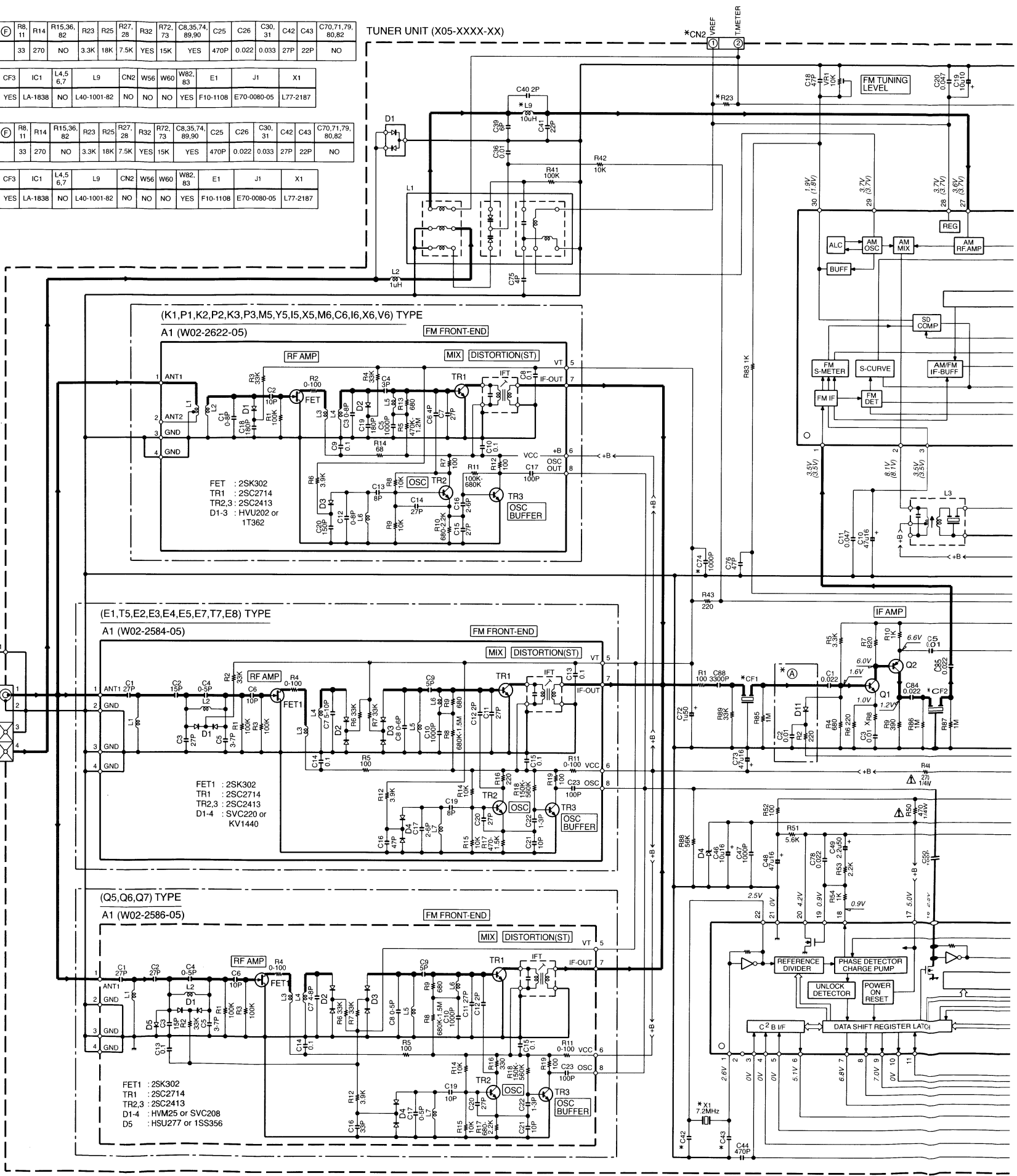
A										B										C									
VR-355 (X05-5050-10)																													
DESTINATION		UNIT No.	A	B	C	F	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82							
COUNTRY		ABB	0-10				NO				33	270	NO	3.3K	18K	7.5K	YES	15K	YES	470P	0.022	0.033	27P	22P	NO				
U.S.A.		K3																											
CANADA		P3																											
KRF-V5020 (X05-498X-XX)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	0-22				NO				YES	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	YES	470P	0.022			NO			
MALAYSIA		I5																				0.022	12P	10P					
AUSTRALIA		X5	0-71																										
U.K.		T5					NO				10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018			YES				
EUROPE		E1	2-71				YES																						
KRF-V5020(S) (X05-4982-71)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	2-71				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
EUROPE		E2																											
KRF-V5020E (X05-4982-71)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	2-71				NO				10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES			
EUROPE		E3																											
KRF-V5020W (X05-4983-81)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	3-81				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
RUSSIA		Q5																											
KRF-V6020 (X05-498X-XX)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	0-22				NO				YES	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	YES	470P	0.022			NO			
CHINA		C8																											
MALAYSIA		I6	0-71																										
AUSTRALIA		X6					NO				10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018			YES				
EUROPE		E4	2-71				YES																						
KRF-V6020(S) (X05-4982-71)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	2-71				NO				10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES			
EUROPE		E4																											
KRF-V6020W (X05-4983-81)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	3-81				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
RUSSIA		Q5																											
KRF-V7020 (X05-4982-71)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	2-71				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
EUROPE		E7																											
U.K.		T7					NO				10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES			
KRF-V7020W (X05-4983-81)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	3-81				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
RUSSIA		Q6																											
KRF-V7020(S) (X05-4982-71)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	2-71				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
EUROPE		E7																											
U.K.		T7					NO				10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES			
KRF-V7020W (X05-4983-81)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	3-81				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
RUSSIA		Q7																											
KRF-V7020(S) (X05-4982-71)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	2-71				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
EUROPE		E7																											
U.K.		T7					NO				10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES			
KRF-V7020W (X05-4983-81)																													
DESTINATION		UNIT No.	A	C	F	B	R8	R11	R14	R15,36,82	R23	R25	R27,28	R32	R72,73	C8,35,74,89,90	C25	C26	C30,31	C42	C43	C70,71,79,80,82	C74						
COUNTRY		ABB	3-81				YES				NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES		
RUSSIA		Q7																											

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

SAA6579T

TC9162AF  
TC9164AF

- IC1 : \*
- IC2 : LC72131
- Q1,3,4,6,7 : 2SC4081(R,S) or 2SD1819A(Q,R) or 2SA1576A(R,S) or 2SB1218A(Q,R) or 2SD1757K
- Q2,12,14 : 2SD1757K
- Q10,11 : 2SD1757K
- D1 : DA204U or MA143A or 1SS302
- D3 : RD9.2ES(B2) or MTZJ8.2(B) or HZS9.2N(B2) or RD5.1ES(B2) or MTZJ5.1(B) or HZS5.1N(B2) or RD2.7ES(B2) or MTZJ2.7(B) or HZS2.7N(B2)
- D4 : RD3.3ES(B2) or MTZJ3.3(B) or HZS3.3N(B2)
- D5 : HVM25 or SVC208
- D5 : HVSU277 or 1SS356
- A1 : \*

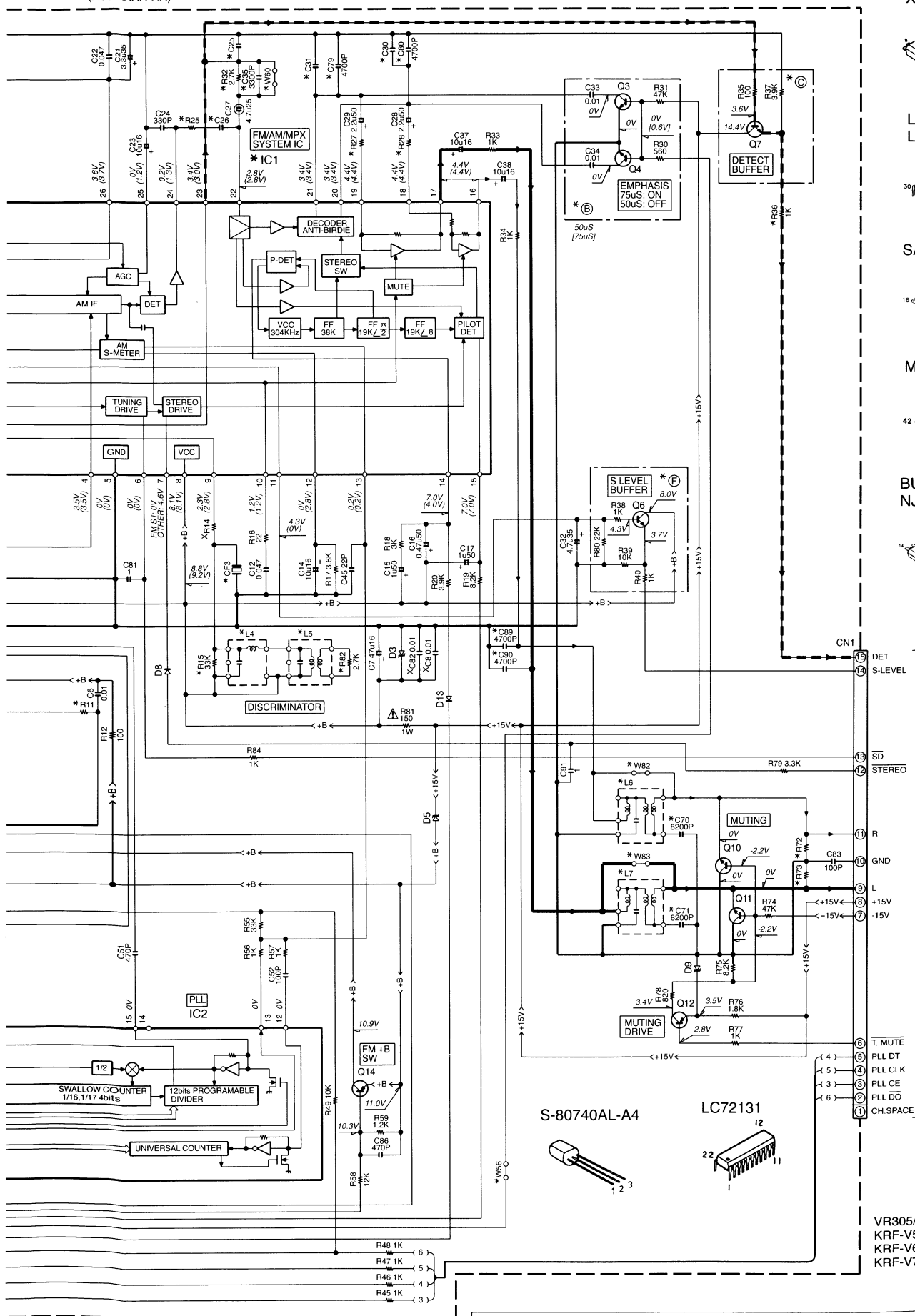


The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB



(X05-XXXX-XX)



KRF-V5020/V6020/V7020/VR-305/306/355

Y05-3782-70

MC-Service

KENWOOD

IC1 : TA7815SB  
 IC2 : TA79015SB  
 IC3 : \*  
 IC4 : \*  
 IC5 : NJM4580ED  
 IC6 : TC9164AF  
 IC7 : TC9162AF  
 IC8,12,55 : NJM4565MD  
 IC9 : M6246FP  
 IC16 : M62460FP  
 IC17 : BU4066BCF  
 IC18 : NJM2279M  
 IC19 : M5278L05M

D3,4,7 : MTZJ5.1(B) or  
 RD5.1ES(B2)  
 D5,6 : MTZJ6.8(B) or  
 RD6.8ES(B2)  
 D8 : MTZJ11(B) or  
 RD11ES(B2)  
 D10,12,13 : MTZJ8.2(B) or  
 RD8.2ES(B2)  
 D11,56 : MTZJ7.5(B) or  
 RD7.5ES(B2)  
 D14,15 : MTZJ10(B) or  
 RD10ES(B2)  
 D19-23,26,50-55,59,532,533 : MA111

Q1-11 : 2SC2878(B)  
 Q12,40,42 : 2SC4213(B)  
 Q13,14 : 2SA1586(Y,GR) or  
 2SA1611(M5,M6)  
 Q15-19 : 2SC1845(F,E)  
 Q20-23 : DTC123JUA  
 Q24,25,32-34,36,37 : 2SC3722K(R,S)  
 Q26,35 : 2SA1255  
 Q29 : 2SC3944A(R,S)  
 Q30 : 2SA1285A(F) or  
 2SA1123(S,T)  
 Q31 : 2SB1640  
 Q41 : DTC113ZUA or  
 UN5219

D24 : MTZJ4.7(B) or  
 RD4.7ES(B2)  
 D25 : MTZJ3.3(B) or  
 RD3.3ES(B2)  
 D31,32 : D4SBL20UF03  
 D37,38 : MTZJ16(B) or  
 RD16ES(B2)  
 D39,40 : MTZJ18(B) or  
 RD18ES(B2)  
 D530 : S1ZB20(4072)

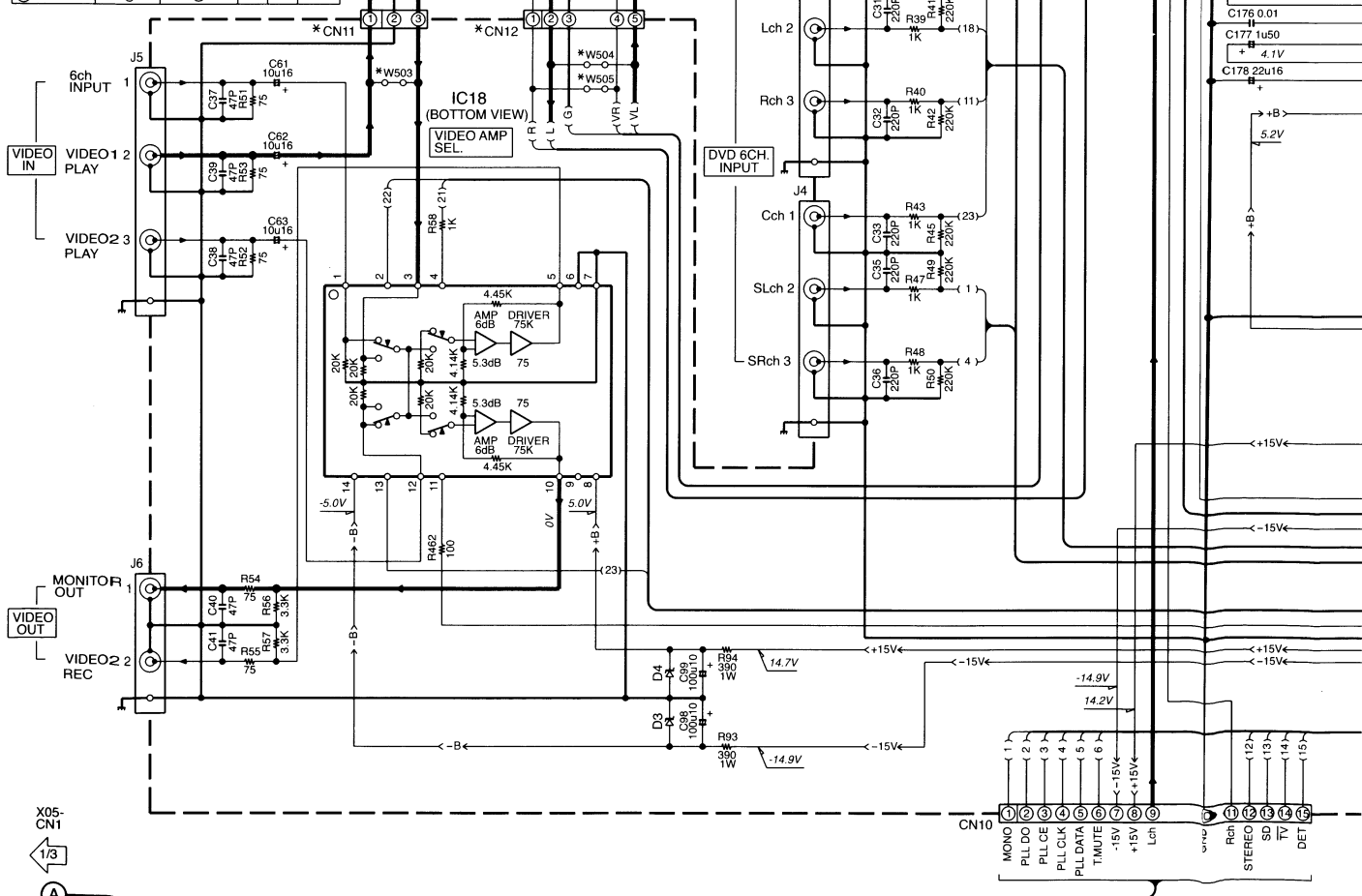
TH1 : PTH9C42BD471Q

SIGNAL LINE  
 GND LINE  
 +B LINE  
 -B LINE

USED  
 KRF-V7020/E/W

SUB CIRCUIT UNIT (X25-6222-70)

IC18 I/O TABLE					
INPUT	OUTPUT	①	⑤	②	③
VIDEO1	MONITOR	○	×	L	L
VIDEO2	VIDEO1 REC	○	○	L	H
6ch INPUT	VIDEO2 REC	○	○	H	H



U

V

W

X

Y

Z

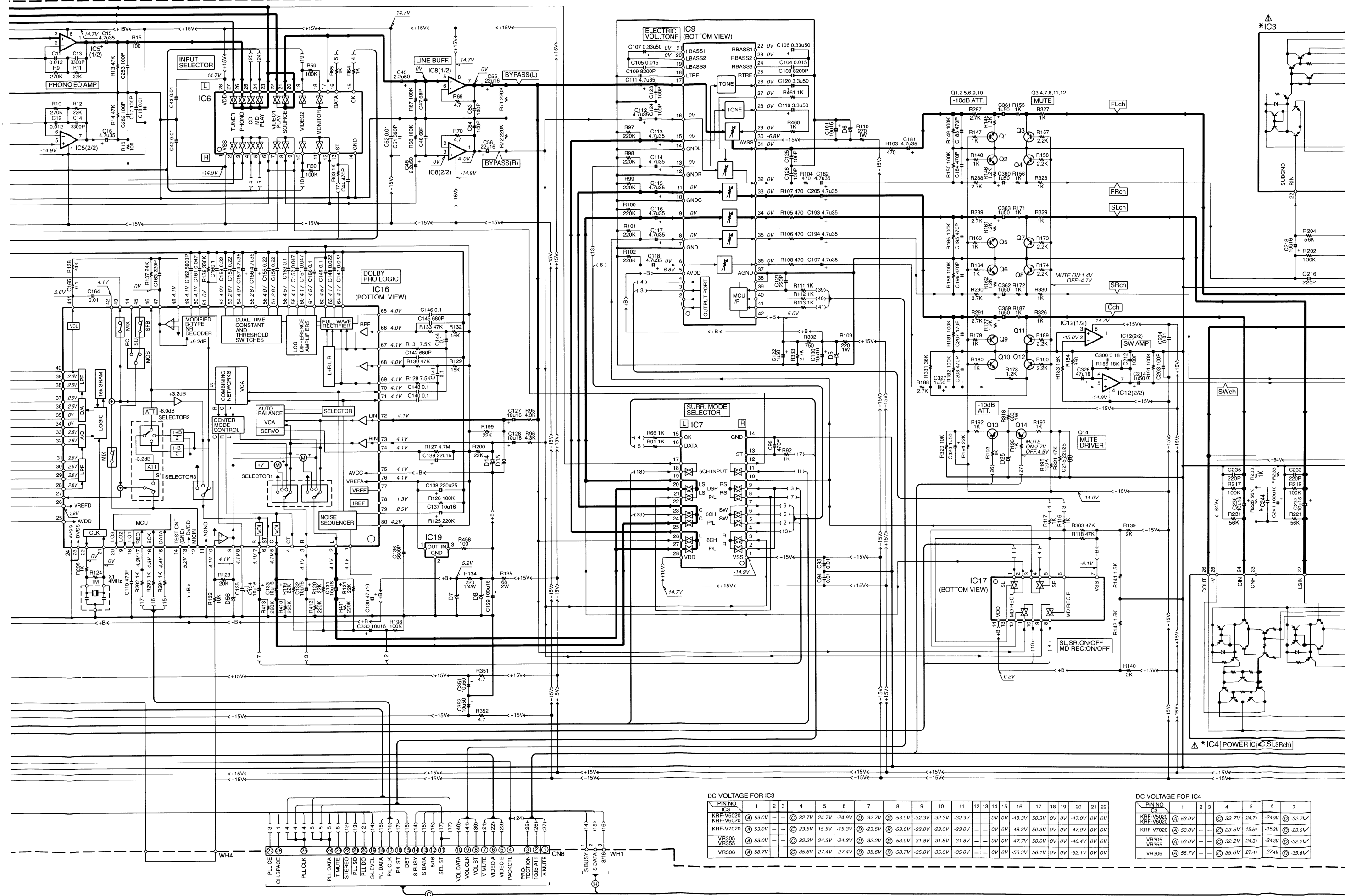
AA

AB

AC

AD

(X09-6XXX-XX) (A/3)



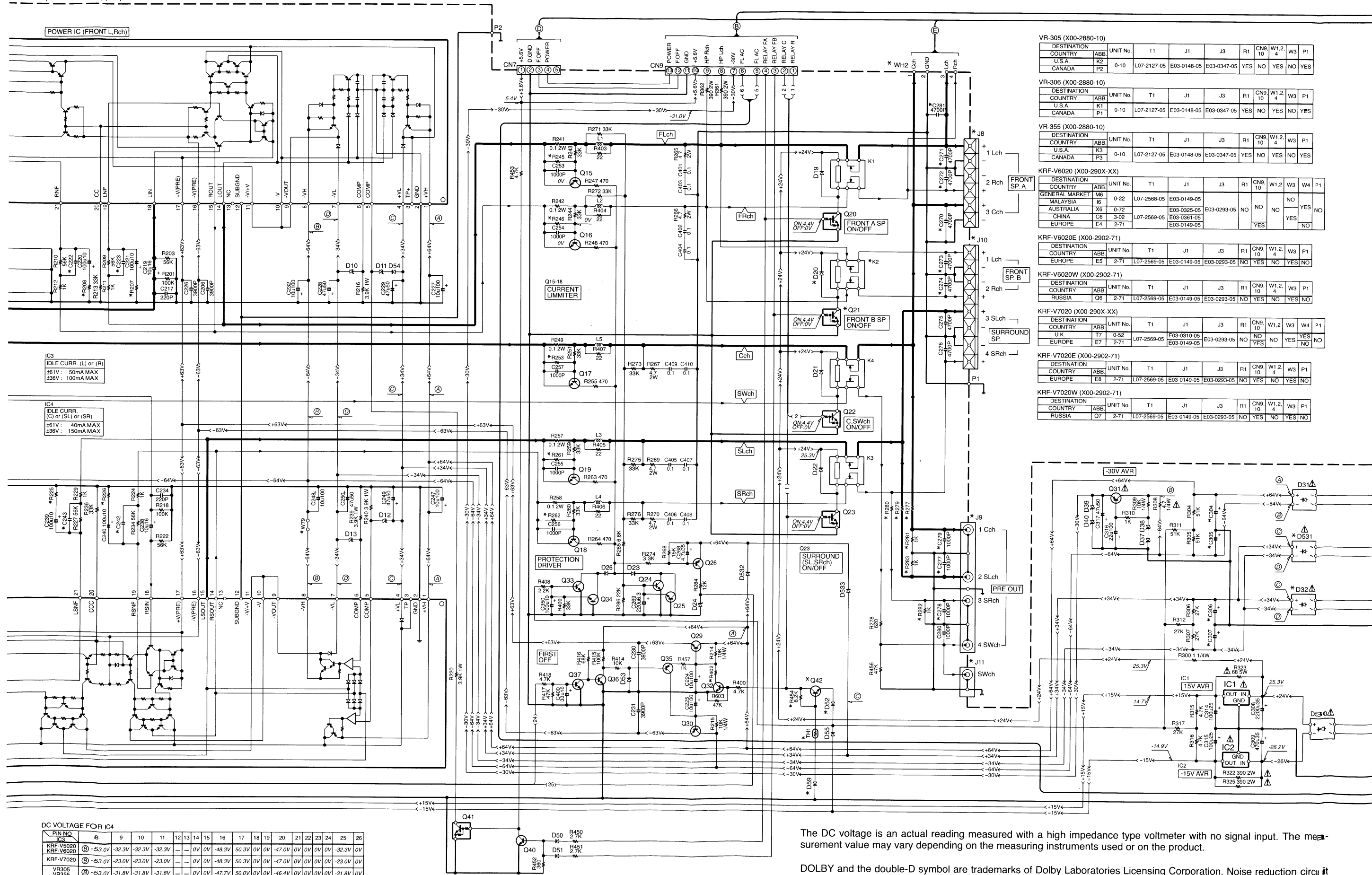
DC VOLTAGE FOR IC3

PIN NO IC3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
KRF-V5020 KRF-V6020	A	53.0V	—	—	⊖ 32.7V	24.7V	-24.9V	⊖ 32.7V	⊖ 53.0V	-32.3V	-32.3V	-32.3V	—	—	0V	0V	-48.3V	50.3V	0V	0V	-47.0V	0V	0V
KRF-V7020	A	53.0V	—	—	⊖ 23.5V	15.5V	-15.3V	⊖ 23.5V	⊖ 53.0V	-23.0V	-23.0V	-23.0V	—	—	0V	0V	-48.3V	50.3V	0V	0V	-47.0V	0V	0V
VR305 VR355	A	53.0V	—	—	⊖ 32.2V	24.3V	-24.3V	⊖ 32.2V	⊖ 53.0V	-31.8V	-31.8V	-31.8V	—	—	0V	0V	-47.7V	50.0V	0V	0V	-46.4V	0V	0V
VR306	A	58.7V	—	—	⊖ 35.6V	27.4V	-27.4V	⊖ 35.6V	⊖ 58.7V	-35.0V	-35.0V	-35.0V	—	—	0V	0V	-53.3V	56.1V	0V	0V	-52.1V	0V	0V

DC VOLTAGE FOR IC4

PIN NO	1	2	3	4	5	6	7
KRF-V5020	53.0V	—	—	32.7V	24.7V	-24.9V	—
KRF-V6020	53.0V	—	—	23.5V	15.5V	-15.3V	—
KRF-V7020	53.0V	—	—	32.2V	24.3V	-24.3V	—
VR305	53.0V	—	—	32.2V	24.3V	-24.3V	—
VR355	53.0V	—	—	32.2V	24.3V	-24.3V	—
VR306	58.7V	—	—	35.6V	27.4V	-27.4V	—

(X09-6XXX-XX) (A/3)



AO

AP

AQ

AR

AS

AT

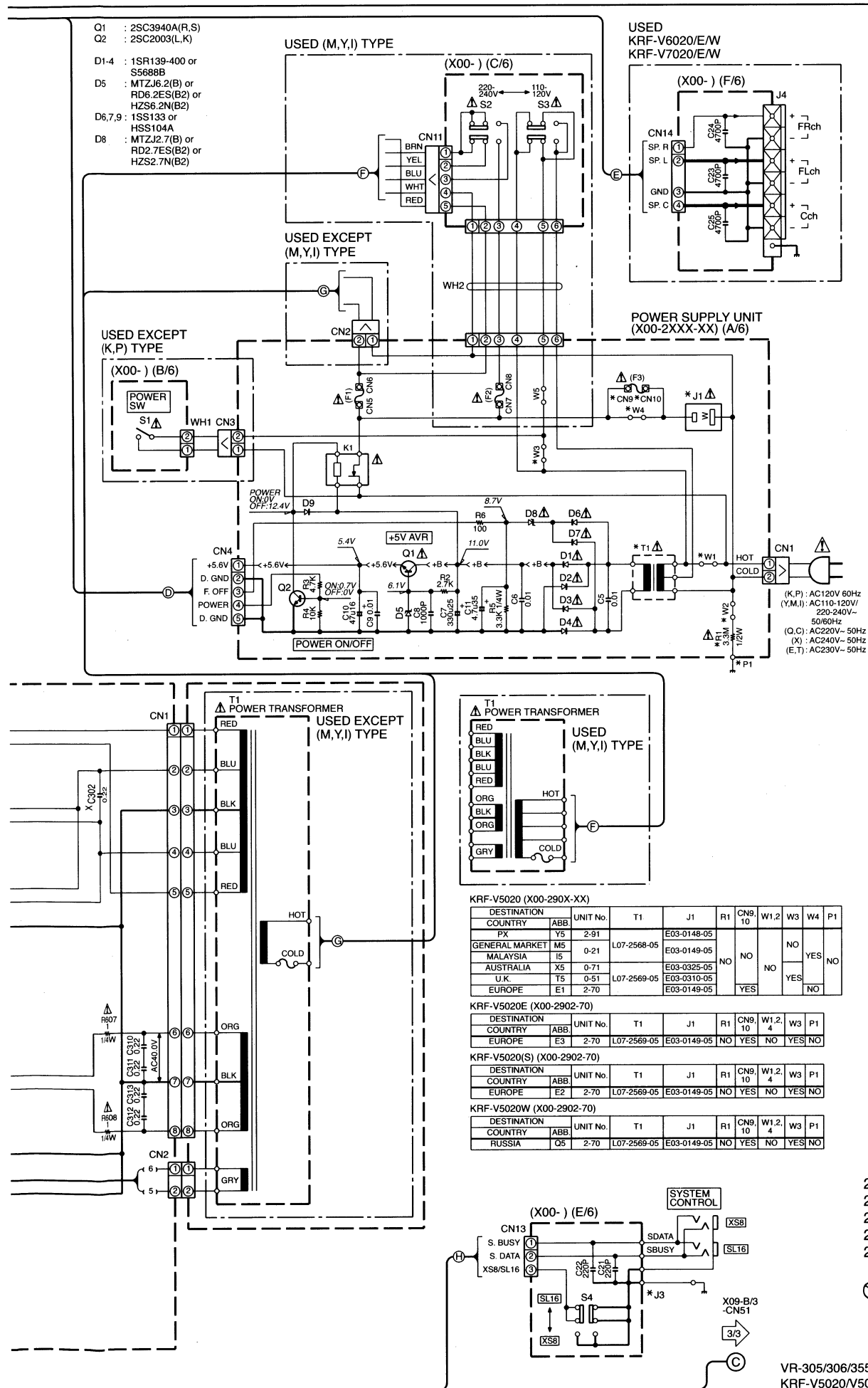
AU

AV

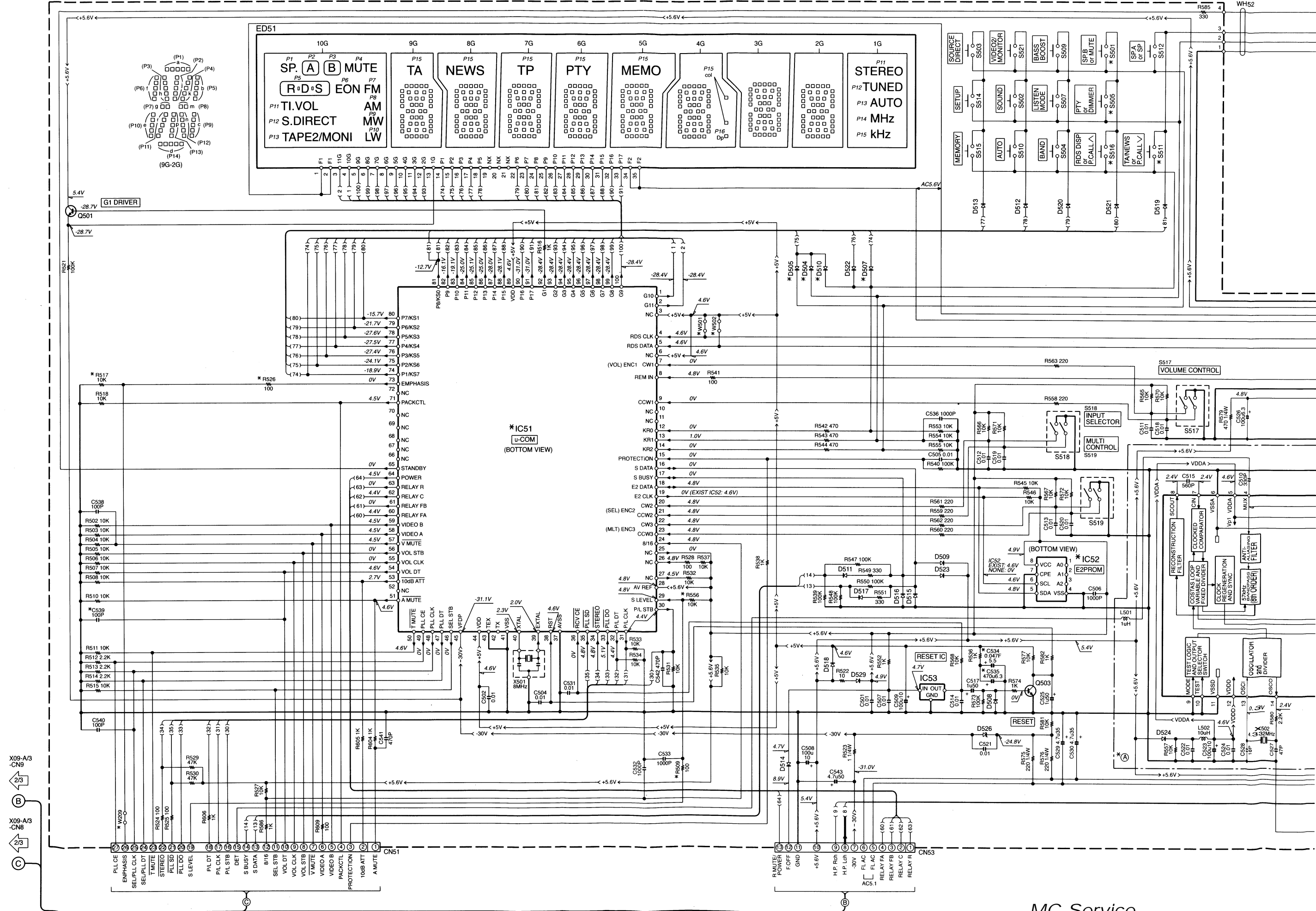
AW

AX

(X09-6XXX-XX) (A/3)

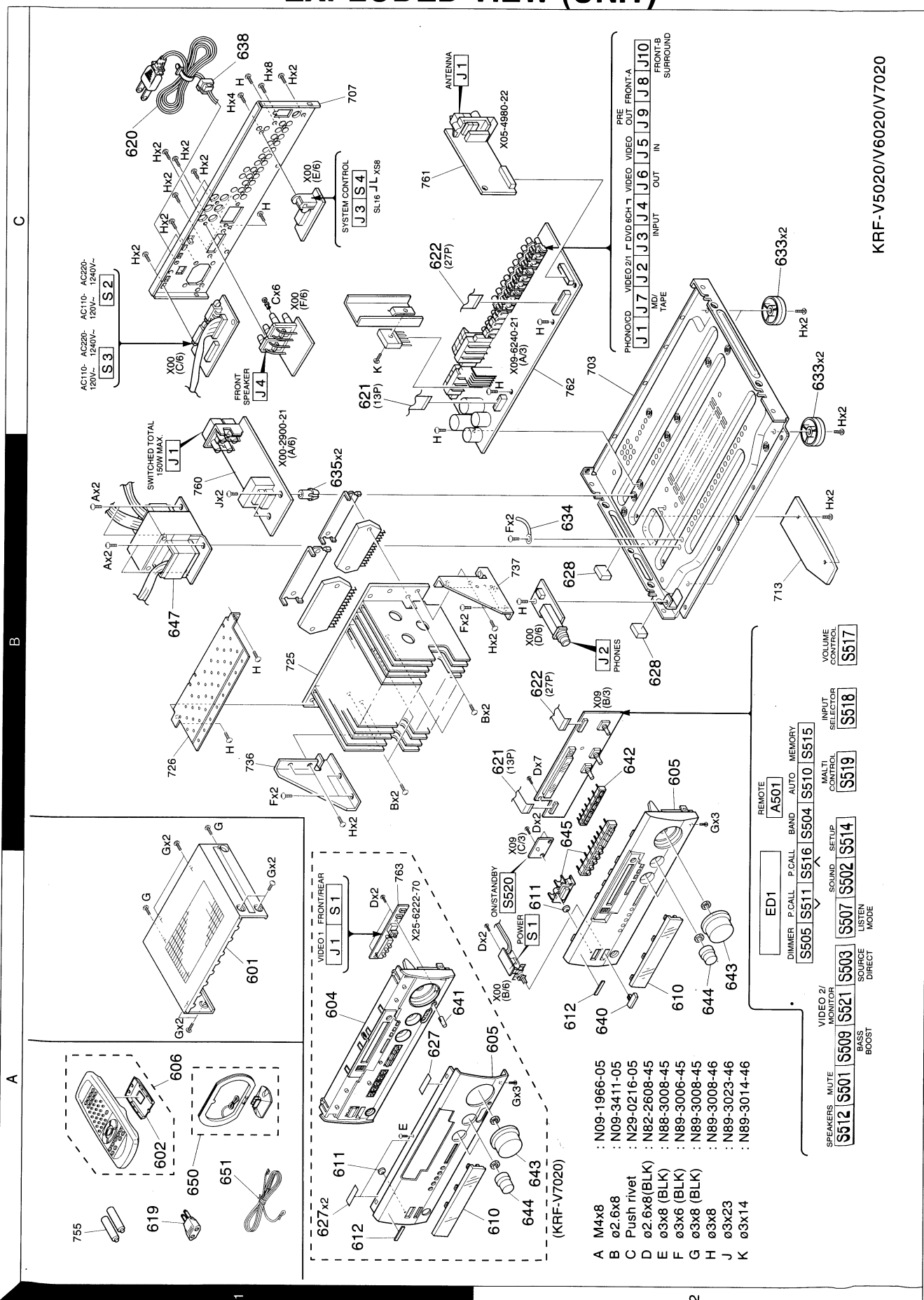




DISPLAY UNIT  
(X09-6XXX-XX) (B/3)



## EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

\* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

1

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
<b>KRF-V7020/V7020E/V7020W</b>						
601	1A		A01-3686-01	METALLIC CABINET		
602	1A		A09-0366-08	BATTERY COVER		
604	1A	*	A22-1806-11	SUB PANEL		
605	1A	*	A60-1597-02	PANEL		
606	1A		A70-1275-05	REMOTE CONTROLLER (RC-R0508)		
610	2A		B10-3425-02	FRONT GLASS		
611	1A		B12-0341-04	INDICATOR		
612	1A		B43-0302-04	KENWOOD BADGE		
			B46-0310-03	WARRANTY CARD		
			B58-0945-03	CAUTION CARD	T7	
			B58-0965-13	CAUTION CARD (T,X/PL)	T7	
			B58-0966-13	CAUTION CARD (ELM/PL)	E8	
			B58-1526-03	CAUTION CARD (P4,ORI,A4,1(Q))	Q7	
			B58-1607-03	CAUTION CARD	E8	
		*	B60-4148-00	INSTRUCTION MANUAL(EN)RC	E8T7Q7	
			B60-4149-00	INSTRUCTION MANUAL(5-LANG)RC	E7	
		*	B60-4150-00	INSTRUCTION MANUAL(PL/HU/CZ)RC	E8	
		*	B60-4151-00	INSTRUCTION MANUAL(RU)RC	Q7	
			B60-4155-00	INSTRUCTION MANUAL(EN)	E8T7Q7	
			B60-4156-00	INSTRUCTION MANUAL(FR/NE)	E7	
			B60-4157-00	INSTRUCTION MANUAL(IT/ES)	E7	
			B60-4158-00	INSTRUCTION MANUAL(GE)	E7	
			B60-4159-00	INSTRUCTION MANUAL(PL)	E8	
			B60-4160-00	INSTRUCTION MANUAL(HU/CZ)	E8	
			B60-4161-00	INSTRUCTION MANUAL(RU)	Q7	
△ 620	1C		E30-2592-15	AC POWER CORD	E7E8Q7	
△ 620	1C		E30-2721-05	AC POWER CORD	T7	
621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
△ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		
△ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E7E8Q7	
627	1A		G10-0481-04	NON-WOVEN FABRIC		
628	2B		G11-2416-04	CUSHION		
			H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)		
			H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)		
			H25-0232-04	PROTECTION BAG (235X350X0.03)	E7E8Q7	
			H25-0391-04	PROTECTION BAG		
			H25-0651-04	PROTECTION BAG (0232)	T7	
		*	H50-3233-04	ITEM CARTON CASE	E7T7	
		*	H50-3235-04	ITEM CARTON CASE	E8	
		*	H50-3236-04	ITEM CARTON CASE	Q7	
633	2C		J02-1168-03	FOOT GOLD		
634	2B		J19-2808-05	HOLDER		
635	1B		J19-3752-14	UNIT HOLDER		
△ 638	1C		J42-0083-05	POWER CORD BUSHING		
			J61-0081-05	WIRE BAND		
			J61-0307-05	WIRE BAND		
640	2A		K27-2275-04	KNOB (BUTTON) PUSH		
641	1A	*	K27-2342-04	KNOB (BUTTON) F.AUX		
642	2B		K29-7311-03	KNOB RDS		
643	2A		K29-7312-04	KNOB D54		

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2

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
644	2A		K29-7313-04	KNOB D33		
△ 647	1B	*	L07-2699-05	POWER TRANSFORMER	E7E8T7	
△ 647	1B	*	L07-2700-05	POWER TRANSFORMER	Q7	
650	1A		T90-0833-05	LOOP ANTENNA		
651	1A		T90-0836-05	LEAD WIRE ANTENNA		
<b>KRF-V6020/V6020E/V6020W</b>						
601	1A	*	A01-3613-01	METALLIC CABINET	V6	
601	1A	*	A01-3687-01	METALLIC CABINET	C6X616	
601	1A	*	A01-3687-01	METALLIC CABINET	E4E5Q6	
601	1A	*	A01-3687-01	METALLIC CABINET	M6	
602	1A	*	A09-0366-08	BATTERY COVER	E4	
602	1A	*	A09-1123-08	BATTERY COVER	C6X616	
602	1A	*	A09-1123-08	BATTERY COVER	E5Q6M6	
602	1A	*	A09-1123-08	BATTERY COVER	V6	
605	2B	*	A60-1600-01	PANEL	E4E5Q6	
605	2B	*	A60-1601-01	PANEL	M6X616	
605	2B	*	A60-1602-01	PANEL	C6	
605	2B	*	A60-1663-01	PANEL	V6	
606	1A	*	A70-1264-05	REMOTE CONTROLLER (RC-R0711)	I6	
606	1A	*	A70-1264-05	REMOTE CONTROLLER (RC-R0711)	M6C6X6	
606	1A	*	A70-1264-05	REMOTE CONTROLLER (RC-R0711)	V6	
606	1A	*	A70-1265-05	REMOTE CONTROLLER (RC-R0710)	E5Q6	
606	1A	*	A70-1275-05	REMOTE CONTROLLER (RC-R0508)	E4	
610	2A		B10-2439-02	FRONT GLASS	V6	
610	2A		B10-3425-02	FRONT GLASS		
611	2A		B12-0334-14	INDICATOR	V6	
611	2A		B12-0341-04	INDICATOR		
612	2A		B43-0302-04	KENWOOD BADGE		
			B46-0096-53	WARRANTY CARD	X6	
			B46-0310-03	WARRANTY CARD	E4E5Q6	
			B46-0343-03	WARRANTY CARD	C6	
			B46-0344-03	WARRANTY CARD	V6	
			B58-0965-13	CAUTION CARD (T,X/PL)	X6	
			B58-0966-13	CAUTION CARD (ELM/P)	E4M616	
			B58-1526-03	CAUTION CARD (P4,ORI,A4,1(Q))	Q6	
			B58-1546-03	CAUTION CARD	C6V6	
			B58-1607-03	CAUTION CARD	E5	
		*	B60-4132-00	INSTRUCTION MANUAL(TC)	M616	
		*	B60-4149-00	INSTRUCTION MANUAL(5-LAN)RC	E4	
		*	B60-4152-00	INSTRUCTION MANUAL(EN)	M6X616	
		*	B60-4155-00	INSTRUCTION MANUAL(EN)	E5Q6	
		*	B60-4156-00	INSTRUCTION MANUAL(FR/NE)	E4	
		*	B60-4157-00	INSTRUCTION MANUAL(IT/ES)	E4	
		*	B60-4158-00	INSTRUCTION MANUAL(GE)	E4	
		*	B60-4159-00	INSTRUCTION MANUAL(PL)	E5	
		*	B60-4160-00	INSTRUCTION MANUAL(HU/CZ)	E5	
		*	B60-4161-00	INSTRUCTION MANUAL(RU)	Q6	
		*	B60-4162-00	INSTRUCTION MANUAL(SC)	C6	
△ 619	1A		E03-0115-05	AC PLUG ADAPTER	M616	
△ 620	1C		E30-2592-15	AC POWER CORD	E4E5Q6	
△ 620	1C		E30-2592-15	AC POWER CORD	M616	
△ 620	1C		E30-2717-05	AC POWER CORD	X6	
△ 620	1C		E30-2824-15	AC POWER CORD	V6	

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KRF-V5020/V6020/V7020/MR-305/306/355  
PARTS LIST

\* New Parts

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③

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
△ 620	1C		E30-2870-05	AC POWER CORD	C6	
621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
△ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	C6X6I6	
△ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	E4E5Q6	
△ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	M6	
△ F1			F50-0101-05	FUSE(5X20) (250V T3.15AL)	V6	
△ F2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	M6I6	
△ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E4E5Q6	
628	2B		G11-2416-04	CUSHION		
-		*	H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)	C6X6I6	
-		*	H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)	E4E5Q6	
-		*	H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)	M6	
-		*	H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)	C6X6I6	
-		*	H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)	E4E5Q6	
-		*	H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)	M6	
-		*	H10-7554-02	POLYSTYRENE FOAMED FIXTURE	V6	
-		*	H10-7555-02	POLYSTYRENE FOAMED FIXTURE	V6	
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0391-04	PROTECTION BAG		
-		*	H50-3237-04	ITEM CARTON CASE	E4X6	
-		*	H50-3238-04	ITEM CARTON CASE	E5	
-		*	H50-3239-04	ITEM CARTON CASE	Q6	
-		*	H50-3240-04	ITEM CARTON CASE	M6I6	
-		*	H50-3241-04	ITEM CARTON CASE	C6	
-		*	H50-3259-04	ITEM CARTON CASE	V6	
633	2C		J02-1167-03	FOOT	V6	
633	2C		J02-1168-03	FOOT GOLD	C6X6I6	
633	2C		J02-1168-03	FOOT GOLD	E4E5Q6	
633	2C		J02-1168-03	FOOT GOLD	M6	
634	2B		J19-2808-05	HOLDER		
635	1B		J19-3752-14	UNIT HOLDER	C6X6I6	
635	1B		J19-3752-14	UNIT HOLDER	E4E5Q6	
635	1B		J19-3752-14	UNIT HOLDER	M6	
635	1B		J19-5787-04	UNIT HOLDER	V6	
△ 638	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
640	2A		K27-2185-04	KNOB (BUTTON) PUSH	V6	
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	C6X6I6	
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	E4E5Q6	
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	M6	
642	2B		K29-7310-03	KNOB TUNER	I6	
642	2B		K29-7310-03	KNOB TUNER	M6C6X6	
642	2B		K29-7311-03	KNOB RDS	E4E5Q6	
642	2B		K29-7366-03	KNOB TUNER	V6	
643	2A		K29-7306-14	KNOB D54	V6	
643	2A		K29-7312-04	KNOB D54	C6X6I6	
643	2A		K29-7312-04	KNOB D54	E4E5Q6	
643	2A		K29-7312-04	KNOB D54	M6	
644	2A		K29-7307-14	KNOB D33	V6	
644	2A		K29-7313-04	KNOB D33	C6X6I6	
644	2A		K29-7313-04	KNOB D33	E4E5Q6	

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④

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
644	2A		K29-7313-04	KNOB D33	M6	
645	2B		K29-7309-02	KNOB POWER	C6X6I6	
645	2B		K29-7309-02	KNOB POWER	E4E5Q6	
645	2B		K29-7309-02	KNOB POWER	M6	
645	2B		K29-7365-12	KNOB POWER	V6	
△ 647	1B	*	L07-2702-05	POWER TRANSFORMER	M6I6	
△ 647	1B	*	L07-2703-05	POWER TRANSFORMER	X6	
△ 647	1B	*	L07-2704-05	POWER TRANSFORMER	E4E5	
△ 647	1B	*	L07-2705-05	POWER TRANSFORMER	Q6C6	
△ 647	1B	*	L07-2709-05	POWER TRANSFORMER	V6	
650	1A		T90-0833-05	LOOP ANTENNA		
651	1A		T90-0836-05	LEAD WIRE ANTENNA		
<b>KRF-V5020/V5020E/V5020W/V5020(S)</b>						
601	1A		A01-3650-01	METALLIC CABINET	E2	
601	1A	*	A01-3687-01	METALLIC CABINET	E1E3T5	
601	1A	*	A01-3687-01	METALLIC CABINET	Q5Y5M5	
601	1A	*	A01-3687-01	METALLIC CABINET	X5I5	
602	1A	*	A09-1123-08	BATTERY COVER		
605	2B	*	A60-1598-01	PANEL	E2	
605	2B	*	A60-1604-01	PANEL	Y5	
605	2B	*	A60-1605-01	PANEL	M5X5I5	
605	2B	*	A60-1606-01	PANEL	E1E3T5	
605	2B	*	A60-1606-01	PANEL	Q5	
606	1A	*	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	I5	
606	1A	*	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	Y5M5X5	
606	1A	*	A70-1265-05	REMOTE CONTROLLER(RC-R0710)	E1E2E3	
606	1A	*	A70-1265-05	REMOTE CONTROLLER(RC-R0710)	T5Q5	
610	2A		B10-3425-02	FRONT GLASS		
611	2A		B12-0341-04	INDICATOR		
612	2A		B43-0302-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X5	
-			B46-0310-03	WARRANTY CARD	E1E2E3	
-			B46-0310-03	WARRANTY CARD	T5Q5	
-			B46-0330-03	WARRANTY CARD	Y5	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y5	
-			B58-0945-03	CAUTION CARD	T5	
-			B58-0964-13	CAUTION CARD (UL)	Y5	
-			B58-0965-13	CAUTION CARD (T,X/PL)	T5X5	
-			B58-0966-13	CAUTION CARD (ELM/PL)	E1E2M5	
-			B58-0966-13	CAUTION CARD (ELM/PL)	I5	
-			B58-1526-03	CAUTION CARD (P4,ORI,A4,1(Q)	Q5	
-			B58-1607-03	CAUTION CARD	E3	
-			B59-1104-00	SERVICE DIRECTORY	Y5	
-			B60-4132-00	INSTRUCTION MANUAL(TC)	I5	
-			B60-4152-00	INSTRUCTION MANUAL(EN)	I5	
-			B60-4152-00	INSTRUCTION MANUAL(EN)	Y1M5X5	M5
-		*	B60-4154-00	INSTRUCTION MANUAL(ES/TC)		
-			B60-4155-00	INSTRUCTION MANUAL(EN)	E3T5Q5	
-			B60-4156-00	INSTRUCTION MANUAL(FR/EN)	E1E2	
-			B60-4157-00	INSTRUCTION MANUAL(IT/ES)	E1E2	
-			B60-4158-00	INSTRUCTION MANUAL(GE)	E1E2	
-			B60-4159-00	INSTRUCTION MANUAL(PL)	E3	
-			B60-4160-00	INSTRUCTION MANUAL(HU/CZ)	E3	
-			B60-4161-00	INSTRUCTION MANUAL(RU)	Q5	

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KRF-V5020/V6020/V7020/MR-305/306/355

## PARTS LIST



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5

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ 619	1A		E03-0115-05	AC PLUG ADAPTER	M5I5	
△ 620	1C		E30-2592-15	AC POWER CORD	E1E2E3	
△ 620	1C		E30-2592-15	AC POWER CORD	Q5M5I5	
△ 620	1C		E30-2605-05	AC POWER CORD	Y5	
△ 620	1C		E30-2717-05	AC POWER CORD	X5	
△ 620	1C		E30-2721-05	AC POWER CORD	T5	
△ 621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
△ 622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
△ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		
△ F2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	Y5M5I5	
△ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E1E2E3	
△ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	Q5	
628	2B		G11-2416-04	CUSHION		
-			H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)		
-			H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	E1E2E3	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	Q5Y5M5	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	X5I5	
-			H25-0391-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232)	T5	
-		*	H50-3243-04	ITEM CARTON CASE	E1T5Y5	
-		*	H50-3243-04	ITEM CARTON CASE	X5	
-		*	H50-3244-04	ITEM CARTON CASE	M5I5	
-		*	H50-3245-04	ITEM CARTON CASE		
-		*	H50-3246-04	ITEM CARTON CASE	E3	
-		*	H50-3257-04	ITEM CARTON CASE	Q5	
-		*	H50-3257-04	ITEM CARTON CASE	E2	
633	2C		J02-1168-03	FOOT GOLD	E1E2E3	
633	2C		J02-1168-03	FOOT GOLD	T5Q5M5	
633	2C		J02-1168-03	FOOT GOLD	X5I5	
633	2C		J02-1407-03	FOOT TIN (D=46,H=14.5,T)	Y5	
634	2B		J19-2808-05	HOLDER		
△ 635	1B		J19-3752-14	UNIT HOLDER		
638	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	E1E3T5	
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	I5	
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	Q5M5X5	
640	2A		K27-2293-04	KNOB (BUTTON) PUSH,GOLD	Y5	
640	2A		K27-2312-04	KNOB (BUTTON) PUSH,SILVER	E2	
642	2B		K29-7310-03	KNOB TUNER	M5X5I5	
642	2B		K29-7311-03	KNOB RDS	E1E3T5	
642	2B		K29-7311-03	KNOB RDS	Q5	
642	2B		K29-7323-03	KNOB TUNER,GOLD	Y5	
642	2B		K29-7428-03	KNOB TUNER,SILVER	E2	
643	2A		K29-7312-04	KNOB D54	E1E3T5	
643	2A		K29-7312-04	KNOB D54	I5	
643	2A		K29-7312-04	KNOB D54	Q5M5X5	
643	2A		K29-7325-04	KNOB D54,GOLD	Y5	
643	2A		K29-7429-04	KNOB D54,SILVER	E2	
644	2A		K29-7313-04	KNOB D33	E1E3T5	
644	2A		K29-7313-04	KNOB D33	I5	
644	2A		K29-7313-04	KNOB D33	Q5M5X5	
644	2A		K29-7326-04	KNOB D33,GOLD	Y5	
644	2A		K29-7430-04	KNOB D33,SILVER	E2	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
645	2B		K29-7309-02	KNOB POWER	E1E3T5	
645	2B		K29-7309-02	KNOB POWER	I5	
645	2B		K29-7309-02	KNOB POWER	Q5M5X5	
645	2B		K29-7321-02	KNOB POWER,GOLD	Y5	
645	2B		K29-7427-02	KNOB POWER,SILVER	E2	
△ 647	1B		L07-2702-05	POWER TRANSFORMER	Y5M5I5	
△ 647	1B		L07-2703-05	POWER TRANSFORMER	I5	
△ 647	1B		L07-2704-05	POWER TRANSFORMER	E1E2E3	
△ 647	1B		L07-2704-05	POWER TRANSFORMER	T5	
△ 647	1B		L07-2705-05	POWER TRANSFORMER	Q5	
650	1A		T90-0833-05	LOOP ANTENNA		
651	1A		T90-0836-05	LEAD WIRE ANTENNA		
VR-305/306/355						
601	1A		A01-3533-01	METALLIC CABINET		
602	1A		A09-0366-08	BATTERY COVER	K3P3	
602	1A	*	A09-1123-08	BATTERY COVER	K1P1K2	
602	1A	*	A09-1123-08	BATTERY COVER	P2	
605	1B	*	A60-1596-01	PANEL	K1P1	
605	1B	*	A60-1603-01	PANEL	K2P2	
605	1B	*	A60-1607-01	PANEL	K3P3	
606	1A	*	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	K1P1K1	
606	1A	*	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	P2	
606	1A	*	A70-1271-05	REMOTE CONTROLLER(RC-R0608)	K3P3	
610	2A		B10-2439-02	FRONT GLASS		
611	2A		B12-0334-14	INDICATOR		
612	2A		B43-0302-04	KENWOOD BADGE		
-			B46-0197-00	QUESTIONNAIRE CARD	K1K2K3	
-			B46-0330-03	WARRANTY CARD	K1K2K3	
-			B46-0336-03	WARRANTY CARD	P1P2P3	
-			B58-0964-13	CAUTION CARD (UL)	K1K2K3	
-			B58-0967-03	CAUTION CARD (P/PL)	P1P2P3	
-		*	B60-4144-00	INSTRUCTION MANUAL(EN)RC	K3P3	
-		*	B60-4145-00	INSTRUCTION MANUAL(FR)RC	P3	
-		*	B60-4152-00	INSTRUCTION MANUAL(EN)		
-		*	B60-4153-00	INSTRUCTION MANUAL(FR)	P1P2P3	
△ 620	1C	*	E30-2909-05	AC POWER CORD		
621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
△ F1			F50-0077-05	FUSE(5X20)		
628	2B	*	G11-2415-04	CUSHION		
-		*	H10-7554-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-7555-02	POLYSTYRENE FOAMED FIXTURE(R)		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0391-04	PROTECTION BAG	K1P1	
-		*	H50-3232-04	ITEM CARTON CASE		
-		*	H50-3242-04	ITEM CARTON CASE	K2P2	
-		*	H50-3247-04	ITEM CARTON CASE	K3P3	
633	2C		J02-1405-03	FOOT (D=46,H=14.5,T)		
634	2B		J19-2808-05	HOLDER		
635	1B		J19-5787-04	UNIT HOLDER		
638	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		

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KRF-V5020/V6020/V7020/VR-305/306/355  
PARTS LIST

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640	2A		K29-6939-12	KNOB TUNER		
642	2B		K29-6898-03	KNOB D54		
643	2A		K29-6880-04	KNOB D33		
644	2A		K29-6881-04	KNOB D33		
△ 647	1B	*	L07-2697-05	POWER TRANSFORMER	K1P1	
△ 647	1B	*	L07-2701-05	POWER TRANSFORMER	K2P2K3	
△ 647	1B	*	L07-2701-05	POWER TRANSFORMER	P3	
650	1A		T90-0833-05	LOOP ANTENNA		
651	1A		T90-0836-05	LEAD WIRE ANTENNA		
POWER SUPPLY (X00-2880-10/X00-2890-10/X00-2902-70)						
C5, 6			CK45FF1H103Z	CERAMIC 0.010UF Z		
C7			CE04DW1E331M	ELECTRO 330UF 25WV		
C8			CK45FB1H102K	CERAMIC 1000PF K		
C9			CK45FF1H103Z	CERAMIC 0.010UF Z		
C10			CE04KW1C470M	ELECTRO 47UF 16WV		
C11			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C13, 14			CC45FSL1H101J	CERAMIC 100PF J	KPXCET	
C13, 14			CC45FSL1H101J	CERAMIC 100PF J	QMIIY	
C13, 14			CC45FSL1H151J	CERAMIC 150PF J	V	
C21, 22			CC45FSL1H221J	CERAMIC 220PF J		
C23~25			CK45FF1H472Z	CERAMIC 4700PF Z	67	
C26			C91-1488-05	MF 6800PF 250VAC	V	
CN1			E40-4245-05	PIN ASSY		
CN2			E40-4245-05	PIN ASSY	EQXTCV	
CN2			E40-4245-05	PIN ASSY	KP	
CN3			E40-4245-05	PIN ASSY	EQXTCV	
CN3			E40-4245-05	PIN ASSY	YMI	
CN4			E40-8197-05	SOCKET FOR PIN ASSY		
CN11			E40-4281-05	PIN ASSY	YMI	
CN12, 13			E40-3247-05	PIN ASSY		
CN14			E40-4101-05	PIN ASSY	67	
△ J1			E03-0149-05	AC OUTLET	EQMI	
△ J1			E03-0310-05	AC OUTLET	T	
△ J1			E03-0325-05	AC OUTLET	X	
△ J1			E03-0361-05	AC OUTLET	CV	
△ J2			E11-0127-05	PHONE JACK (3P)	ETQMIY	
△ J2			E11-0127-05	PHONE JACK (3P)	XC	
△ J2			E11-0295-05	PHONE JACK (3P)	KPV	
△ J3			E11-0293-05	MINIATURE PHONE JACK(2P)	ETQMIYXC	
△ J3			E11-0347-05	MINIATURE PHONE JACK(2P)	KPV	
△ J4			E70-0100-05	SCREW TERMINAL BOARD	67	
△ J13			J13-0075-05	FUSE CLIP	YMI	
△ J13			J13-0075-05	FUSE CLIP	EQ	
△ J13			J13-0075-05	FUSE CLIP		
△ J13			J11-0808-05	WIRE CLAMPER		
△ T1			L07-2127-05	POWER TRANSFORMER	KP	
△ T1			L07-2129-05	POWER TRANSFORMER	V	
△ T1			L07-2568-05	POWER TRANSFORMER	YMI	
△ T1			L07-2569-05	POWER TRANSFORMER	EQXTC	
△ R1			R92-1844-05	CARBON 3.3M J 1/2W	KP	
△ K1			S76-0070-05	MAGNETIC RELAY		
△ S1			S68-0088-05	PUSH SWITCH	V	

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△ S1			S68-0100-05	PUSH SWITCH	EQXTC	
△ S1			S68-0100-05	PUSH SWITCH	YMI	
△ S2, 3			S62-0001-05	SLIDE SWITCH	YMI	
△ S4			S62-0034-05	SLIDE SWITCH		
△ D1~4			S5688B	DIODE		
△ D1~4			1SR139-400	DIODE		
△ D5			HZS6.2N(B2)	ZENER DIODE		
△ D5			MTZJ6.2(B)	ZENER DIODE		
△ D5			RD6.2ES(B2)	ZENER DIODE		
△ D6, 7			HSS104A	DIODE		
△ D6, 7			1SS133	DIODE		
△ D8			HZS2.7N(B2)	ZENER DIODE		
△ D8			MTZJ2.7(B)	ZENER DIODE		
△ D8			RD2.7ES(B2)	ZENER DIODE		
△ D9			HSS104A	DIODE		
△ D9			1SS133	DIODE		
△ Q1			2SC3940A(R,S)	TRANSISTOR		
△ Q2			2SC2003(L,K)	TRANSISTOR		
TUNER (X05-4982-71/X05-5050-10/X05-5062-11)						
C1			CK73FB1H223K	CHIP C 0.022UF K		
C2			CK73FB1H103K	CHIP C 0.010UF K		
C3			CK73FB1H103K	CHIP C 0.010UF K		
C5, 6			CK73FB1H103K	CHIP C 0.010UF K		
C7			CE04LW1C470M	ELECTRO 47UF 16WV		
C8			CK73EB1H103K	CHIP C 0.010UF K		
C8			CK73EB1H103K	CHIP C 0.010UF K	KP	
C10			CE04LW1C470M	ELECTRO 47UF 16WV	MCXYIV	
C11, 12			CK73FB1H473K	CHIP C 0.047UF K		
C14			CE04LW1C100M	ELECTRO 10UF 16WV		
C15			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C16			C90-3251-05	ELECTRO 0.47UF 50WV		
C17			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C18			CC73FCH1H470J	CHIP C 47PF J		
C19			C90-3217-05	ELECTRO 10UF 10WV		</

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C36			CK73FB1H103K	CHIP C 0.010UF K		
C37, 38			CE04LW1C100M	ELECTRO 10UF 16WV		
C39			CC73FCH1H060D	CHIP C 6.0PF D		
C40			CC73FCH1H020C	CHIP C 2.0PF C		
C41			CC73FCH1H220J	CHIP C 22PF J		
C42			CC73FCH1H120J	CHIP C 12PF J	EQTMXC	
C42			CC73FCH1H120J	CHIP C 12PF J	YI	
C42			CC73FCH1H270J	CHIP C 27PF J	KPV	
C43			CC73FCH1H100D	CHIP C 10PF D	EQTMXC	
C43			CC73FCH1H100D	CHIP C 10PF D	YI	
C43			CC73FCH1H220J	CHIP C 22PF J		
C44			CK73FB1H471K	CHIP C 470PF K		
C45			CC73FCH1H220J	CHIP C 22PF J		
C46			CE04LW1C100M	ELECTRO 10UF 16WV		
C47			CK73FB1H102K	CHIP C 1000PF K		
C48			CE04LW1C470M	ELECTRO 47UF 16WV		
C49			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C50			CC73FSL1H101J	CHIP C 100PF J		
C51			CK73FB1H471K	CHIP C 470PF K		
C52			CC73FSL1H101J	CHIP C 100PF J		
C70, 71			CK73FB1H822K	CHIP C 8200PF K	EQT	
C72			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C73			CE04LW1C470M	ELECTRO 47UF 16WV		
C74			CK73FB1H102K	CHIP C 1000PF K	KP	
C75			CC73FCH1H040C	CHIP C 4.0PF C		
C76			CC73FCH1H470J	CHIP C 47PF J		
C78			CK73FB1H223K	CHIP C 0.022UF K		
C79, 80			CK73FB1H472K	CHIP C 4700PF K	EQT	
C81			CK73FF1C105Z	CHIP C 1.0UF Z		
C82			CK73FB1H103K	CHIP C 0.010UF K	EQT	
C83			CC73FSL1H101J	CHIP C 100PF J		
C84, 85			CK73FB1H223K	CHIP C 0.022UF K		
C86			CK73FB1H471K	CHIP C 470PF K		
C88			CK73FB1H332K	CHIP C 3300PF K		
C89, 90			CK73FB1H472K	CHIP C 4700PF K	KP	
C89, 90			CK73FB1H472K	CHIP C 4700PF K	MCXYIV	
C91			CK73FF1C105Z	CHIP C 1.0UF Z		
CN1			E40-9831-05	SOCKET FOR PIN ASSY		
CN2			E40-4871-05	PIN ASSY	EQT	
J1			E20-0321-05	LOCK TERMINAL BOARD(2P,F)	EQTMXC	
J1			E20-0321-05	LOCK TERMINAL BOARD(2P,F)	YI	
J1			E70-0052-05	LOCK TERMINAL BOARD	EQTMXC	
J1			E70-0052-05	LOCK TERMINAL BOARD	YI	
J1			E70-0080-05	LOCK TERMINAL BOARD	KPV	
CF1, 2			L72-0531-05	CERAMIC FILTER	MCXYIV	
CF1, 2			L72-0536-05	CERAMIC FILTER	EQT	
CF1, 2			L72-0596-05	CERAMIC FILTER	KP	
CF3			L72-0607-05	CERAMIC FILTER	KP	
CF3			L72-0607-05	CERAMIC FILTER	MCXYIV	
L1			L39-1366-05	COMBINATION COIL		
L2			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L3			L30-0911-05	AM IFT		
L4			L30-0950-05	FM IFT	EQT	
L5			L30-0951-05	FM IFT	EQT	

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L6, 7			L79-1239-05	LC FILTER	EQT	
L9			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	EQXTMC	
L9			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	YI	
L9			L40-1001-82	SMALL FIXED INDUCTOR(10UH)	KPV	
X1			L77-2187-05	CRYSTAL RESONATOR	KPV	
X1			L77-2232-05	CRYSTAL RESONATOR		
X1			L77-2232-05	CRYSTAL RESONATOR	EQTMXC	
X1			L77-2232-05	CRYSTAL RESONATOR	YI	
R1			RK73FB2A101J	CHIP R 100 J 1/10W		
R4			RK73FB2A681J	CHIP R 680 J 1/10W		
R5			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R6			RK73FB2A221J	CHIP R 220 J 1/10W		
R7			RK73FB2A821J	CHIP R 820 J 1/10W		
R8			RK73FB2A100J	CHIP R 10 J 1/10W	EQT	
R8			RK73FB2A330J	CHIP R 33 J 1/10W	KP	
R8			RK73FB2A330J	CHIP R 33 J 1/10W	MCXYIV	
R9			RK73FB2A391J	CHIP R 390 J 1/10W		
R10			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R11			RK73FB2A220J	CHIP R 22 J 1/10W	EQT	
R11			RK73FB2A330J	CHIP R 33 J 1/10W	KP	
R11			RK73FB2A330J	CHIP R 33 J 1/10W	MCXYIV	
R12			RK73FB2A101J	CHIP R 100 J 1/10W		
R14			RK73FB2A101J	CHIP R 100 J 1/10W	EQT	
R14			RK73FB2A271J	CHIP R 270 J 1/10W	KP	
R14			RK73FB2A271J	CHIP R 270 J 1/10W	MCXYIV	
R15			RK73FB2A333J	CHIP R 33K J 1/10W	EQT	
R16			RK73FB2A220J	CHIP R 22 J 1/10W		
R17			RK73FB2A362J	CHIP R 3.6K J 1/10W		
R18			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R19			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R20			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R23			RK73FB2A153J	CHIP R 15K J 1/10W	EQT	
R23			RK73FB2A332J	CHIP R 3.3K J 1/10W	KP	
R23			RK73FB2A183J	CHIP R 18K J 1/10W	MCXYIV	
R25			RK73FB2A183J	CHIP R 18K J 1/10W	MCXYIV	
R25			RK73FB2A273J	CHIP R 27K J 1/10W	EQT	
R27, 28			RK73FB2A432J	CHIP R 4.3K J 1/10W	EQT	
R27, 28			RK73FB2A752J	CHIP R 7.5K J 1/10W	KP	
R27, 28			RK73FB2A752J	CHIP R 7.5K J 1/10W	MCXYIV	
R30			RK73FB2A561J	CHIP R 560 J 1/10W	MCIYV	
R31			RK73FB2A473J	CHIP R 47K J 1/10W	MCIYV	
R32			RK73FB2A272J	CHIP R 2.7K J 1/10W	KP	
R32			RK73FB2A272J	CHIP R 2.7K J 1/10W	MCXYIV	
R33, 34			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R35			RK73FB2A101J	CHIP R 100 J 1/10W	EQT	
R36			RK73FB2A102J	CHIP R 1.0K J 1/10W	EQT	
R37			RK73FB2A392J	CHIP R 3.9K J 1/10W	EQT	
R38			RK73FB2A102J	CHIP R 1.0K J 1/10W	EQT	
R39			RK73FB2A103J	CHIP R 10K J 1/10W	EQT	
R42			RK73FB2A103J	CHIP R 10K J 1/10W		
R43			RK73FB2A221J	CHIP R 220 J 1/10W		
R44			RD14NB2E271J	RD 270 J 1/4W		
R45			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R46			RK73FB2A102J	CHIP R 1.0K J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R47			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R48			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R49			RK73FB2A103J	CHIP R 10K J 1/10W		
R50			RD14NB2E471J	RD 470 J 1/4W		
R51			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R52			RK73FB2A101J	CHIP R 100 J 1/10W		
R53			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R54			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R55			RK73FB2A333J	CHIP R 33K J 1/10W		
R56, 57			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R58			RK73FB2A123J	CHIP R 12K J 1/10W		
R59			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R72, 73			RK73FB2A153J	CHIP R 15K J 1/10W	KP	
R72, 73			RK73FB2A392J	CHIP R 3.9K J 1/10W	EQT	
R72, 73			RK73FB2A822J	CHIP R 8.2K J 1/10W	MCXYIV	
R74			RK73FB2A473J	CHIP R 47K J 1/10W		
R75			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R76			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R78			RK73FB2A821J	CHIP R 820 J 1/10W		
R79			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R80			RK73FB2A223J	CHIP R 22K J 1/10W	EQT	
R81			RS14KB3A151J	FL-PROOF RS 150 J 1W		
R82			RK73FB2A272J	CHIP R 2.7K J 1/10W	EQT	
R83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R84			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R85-87			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R88			RK73FB2A563J	CHIP R 56K J 1/10W		
R89			RK73FB2A333J	CHIP R 33K J 1/10W		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR		
W51, 52			R92-0670-05	CHIP R 0 OHM		
W53			R92-0670-05	CHIP R 0 OHM	EQTMXC	
W53			R92-0670-05	CHIP R 0 OHM	YI	
W54, 55			R92-0670-05	CHIP R 0 OHM		
W56			R92-0670-05	CHIP R 0 OHM	MCIYV	
W59			R92-0670-05	CHIP R 0 OHM		
W60			R92-0670-05	CHIP R 0 OHM	EQT	
W62			R92-0670-05	CHIP R 0 OHM		
W80			R92-0679-05	CHIP R 0 OHM		
W82, 83			R92-0679-05	CHIP R 0 OHM	KP	
W82, 83			R92-0679-05	CHIP R 0 OHM	MCXYIV	
W84, 85			R92-0679-05	CHIP R 0 OHM		
D1			DA204U	DIODE		
D1			MA143A	DIODE		
D1			1SS302	DIODE		
D3			HZS8.2N(B2)	ZENER DIODE		
D3			MTZJ8.2(B)	ZENER DIODE		
D3			RD8.2ES(B2)	ZENER DIODE		
D4			HZS5.1N(B2)	ZENER DIODE		
D4			MTZJ5.1(B)	ZENER DIODE		
D4			RD5.1ES(B2)	ZENER DIODE		
D5			HZS2.7N(B2)	ZENER DIODE		
D5			MTZJ2.7(B)	ZENER DIODE		
D5			RD2.7ES(B2)	ZENER DIODE		
D8			MA111	DIODE		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D9			HZS3.3N(B2)	ZENER DIODE		
D9			MTZJ3.3(B)	ZENER DIODE		
D9			RD3.3ES(B2)	ZENER DIODE		
D11			MA111	DIODE	EQT	
D13			MA111	DIODE		
IC1			LA1837	ANALOGUE IC	EQT	
IC1			LA1838	ANALOGUE IC	KP	
IC1			LA1838	ANALOGUE IC	MCXYIV	
IC2			LC72131	MOS-IC		
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SD1819A(Q,R)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q2			2SB1218A(Q,R)	TRANSISTOR		
Q3, 4			2SC4081(R,S)	TRANSISTOR	MCIYV	
Q3, 4			2SD1819A(Q,R)	TRANSISTOR	MCIYV	
Q6, 7			2SC4081(R,S)	TRANSISTOR	EQT	
Q6, 7			2SD1819A(Q,R)	TRANSISTOR	EQT	
Q10, 11			2SD1757K	TRANSISTOR		
Q12			2SA1576A(R,S)	TRANSISTOR		
Q12			2SB1218A(Q,R)	TRANSISTOR		
Q14			2SA1576A(R,S)	TRANSISTOR		
Q14			2SB1218A(Q,R)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY	ET	
A1			W02-2586-05	FM FRONT-END ASSY	Q	
A1			W02-2622-05	FM FRONT-END ASSY	KP	
A1			W02-2622-05	FM FRONT-END ASSY	MCXYIV	
POWER (X09-6242-70/X09-6262-70/X09-6352-10/X09-6300-10)						
D527			B30-2545-05	LED(RED3(160))		
C1, 2			CC73FSL1H220J	CHIP C 22PF J		
C3, 4			CE04KW1C100M	ELECTRO 10UF 16WV		
C5, 6			CC73FSL1H820J	CHIP C 82PF J		
C7, 8			CE04KW1A470M	ELECTRO 47UF 10WV		
C11, 12			CQ93FMG1H123J	MYLAR 0.012UF J		
C13, 14			CQ93FMG1H332J	MYLAR 3300PF J		
C15, 16			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C17			CC45FSL1H01J	CERAMIC 100PF J		
C18			CK45FF1H103Z	CERAMIC 0.010UF Z		
C19-36			CC73FSL1H221J	CHIP C 220PF J		
C37-41			CC73FCH1H470J	CHIP C 47PF J		
C42, 43			CK73FB1H103K	CHIP C 0.010UF K		
C44			CC73FSL1H471J	CHIP C 470PF J		
C45, 46			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C47, 48			CC73FSL1H680J	CHIP C 68PF J		
C51			CK45FB1H391K	CERAMIC 390PF K		
C52			CK45FF1H103Z	CERAMIC 0.010UF Z		
C53, 54			CC73FSL1H01J	CHIP C 100PF J		
C55, 56			CE04KW1C220M	ELECTRO 22UF 16WV		
C61-63			CE04KW1C100M	ELECTRO 10UF 16WV		
C93, 94			CK45FF1H103Z	CERAMIC 0.010UF Z		
C95			CC73FSL1H471J	CHIP C 470PF J		
C98, 99			CE04KW1A101M	ELECTRO 100UF 10WV		
C100, 101			CE04KW1C100M	ELECTRO 10UF 16WV		
C104, 105			CK73FB1H153K	CHIP C 0.015UF K		

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
C106, 107 C108, 109 C110 C111~118 C119, 120			CE04KW1HR33M CQ93FMG1H822J CC73FSL1H471J CE04KW1V4R7M CE04KW1H3R3M	ELECTRO 0.33UF 50WV MYLAR 8200PF J CHIP C 470PF J ELECTRO 4.7UF 35WV ELECTRO 3.3UF 50WV		
C121 C122 C123~126 C127, 128 C129			CC73FSL1H221J CE04KW1H010M CC73FSL1H101J CE04KW1C100M CE04KW1C101M	CHIP C 220PF J ELECTRO 1.0UF 50WV CHIP C 100PF J ELECTRO 10UF 16WV ELECTRO 100UF 16WV		
C130 C131~134 C135 C136 C137			CE04KW1C470M CE04KW1C100M CK73FB1C104K CK73FB1H562K CE04KW1C100M	ELECTRO 47UF 16WV ELECTRO 10UF 16WV CHIP C 0.10UF K CHIP C 5600PF K ELECTRO 10UF 16WV		
C138 C139 C140, 141 C142 C143, 144			CE04KW1E221M CE04KW1C220M CK73FF1E104Z CK73FB1H681K CK73FF1E104Z	ELECTRO 220UF 25WV ELECTRO 22UF 16WV CHIP C 0.10UF Z CHIP C 680PF K CHIP C 0.10UF Z		
C145 C146 C147, 148 C149, 150 C151, 152			CK73FB1H681K CQ93FMG1H104J CQ93FMG1H223J CK73FB1C104K CQ93FMG1H473J	CHIP C 680PF K MYLAR 0.10UF J MYLAR 0.022UF J CHIP C 0.10UF K MYLAR 0.047UF J		
C153 C154 C155 C156, 157 C158			CK73FB1C104K CK73FF1C224Z CQ93FMG1H224J CE04KW1V4R7M CQ93FMG1H224J	CHIP C 0.10UF K CHIP C 0.22UF Z MYLAR 0.22UF J ELECTRO 4.7UF 35WV MYLAR 0.22UF J		
C159 C160 C161 C162 C163			CK73FF1C224Z CK73FF1C105Z CK73EB1E473K CK73FB1H562K CK73FB1H221K	CHIP C 0.22UF Z CHIP C 1.0UF Z CHIP C 0.047UF K CHIP C 5600PF K CHIP C 220PF K		
C164 C165 C169 C170 C171			CK73FB1H103K CK73FB1C104K CK73FB1H182K CK73FB1H103K CQ93FMG1H683J	CHIP C 0.010UF K CHIP C 0.10UF K CHIP C 1800PF K CHIP C 0.010UF K MYLAR 0.068UF J		
C172, 173 C174 C175 C176 C177			CQ93FMG1H104J CQ93FMG1H683J CQ93FMG1H182J CK73FB1H103K CE04KW1H010M	MYLAR 0.10UF J MYLAR 0.068UF J MYLAR 1800PF J CHIP C 0.010UF K ELECTRO 1.0UF 50WV		
C178 C181, 182 C183, 184 C193, 194 C195, 196			CE04KW1C220M CE04KW1V4R7M CC73FSL1H471J CE04KW1V4R7M CC73FSL1H471J	ELECTRO 22UF 16WV ELECTRO 4.7UF 35WV CHIP C 470PF J ELECTRO 4.7UF 35WV CHIP C 470PF J		
C197 C203 C204 C205 C206			CE04KW1V4R7M CC45FSL1H101J CK45FF1H103Z CE04KW1V4R7M CK45FB2H392K	ELECTRO 4.7UF 35WV CERAMIC 100PF J CERAMIC 0.010UF Z ELECTRO 4.7UF 35WV CERAMIC 3900PF K		

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
C207, 208 C212 C214 C215 C216, 217			CC73FSL1H471J CC73FSL1H101J CE04KW1H010M CE04HW1E220M CK73FB1H221K	CHIP C 470PF J CHIP C 100PF J ELECTRO 1.0UF 50WV NP-ELEC 22UF 25WV CHIP C 220PF K		
C218, 219 C220, 221 C222, 223 C222, 223 C222, 223			CE04KW1C100M CE04KW1A101M CC73FCH1H100D CC73FCH1H150J CC73FCH1H150J	ELECTRO 10UF 16WV ELECTRO 100UF 10WV CHIP C 10PF D CHIP C 15PF J CHIP C 15PF J		EQT KP MCXYIV
C224, 225 C226 C227 C228, 229 C230, 231			CE04KW2A100M CK45FB2H392K CE04KW2A100M CE04KW1H470M CK45FB2H392K	ELECTRO 10UF 100WV CERAMIC 3900PF K ELECTRO 10UF 100WV ELECTRO 47UF 50WV CERAMIC 3900PF K		
C232 C233~235 C236~238 C239~241 C242~244			CE04KW2A100M CK73FB1H221K CE04KW1C100M CE04KW1A101M CC73FCH1H100D	ELECTRO 10UF 100WV CHIP C 220PF K ELECTRO 10UF 16WV ELECTRO 100UF 10WV CHIP C 10PF D		EQT
C242~244 C242~244 C247, 248 C249, 250 C253~257			CC73FCH1H150J CC73FCH1H150J CE04KW2A100M CE04KW1H470M CK73FB1H102K	CHIP C 15PF J CHIP C 15PF J ELECTRO 10UF 100WV ELECTRO 47UF 50WV CHIP C 1000PF K		KP MCXYIV
C268 C269 C270 C270~272 C271			CE04KW1V4R7M CE04KW0J221M CK73FB1H472K CK73FB1H472K CK73FB1H472K	ELECTRO 4.7UF 35WV ELECTRO 220UF 6.3WV CHIP C 4700PF K CHIP C 4700PF K CHIP C 4700PF K		5 KP Q5Y5M5
C271 C272 C273, 274 C275, 276 C277~279			CK73FB1H472K CK73FB1H472K CK73FB1H472K CK73FB1H472K CK45FB1H102K	CHIP C 4700PF K CHIP C 4700PF K CHIP C 4700PF K CHIP C 4700PF K CERAMIC 1000PF K		X5I5 5 67 EQT
C280 C281 C281 C282, 283 C284, 285			CK45FB1H102K CK45FF1H472Z CK45FF1H472Z CC73FSL1H101J CC73FSL1H561J	CERAMIC 1000PF K CERAMIC 4700PF Z CERAMIC 4700PF Z CHIP C 100PF J CHIP C 560PF J		E1E2E3 T5
C300 C302 C302 C304, 305 C304, 305			CQ93FMG1H184J C91-1480-05 C91-1480-05 C90-3832-05 C90-3832-05	MYLAR 0.18UF J MP 0.22UF 250WV MP 0.22UF 250WV ELECTRO 4700UF 75WV ELECTRO 4700UF 75WV		EQTMCX YIV KP MCXYIV
C304, 305 C306, 307 C306, 307 C306, 307 C308		*	C90-3833-05 C90-3834-05 C90-3834-05 C90-3835-05 CE04KW1V222M	ELECTRO 4700UF 63WV ELECTRO 3300UF 42WV ELECTRO 3300UF 42WV ELECTRO 3300UF 35WV ELECTRO 2200UF 35WV		EQT KP MCXYIV EQT
C309 C310~313 C314, 315 C316 C317			CE04KW1V471M CK73FF1C224Z CE04KW1E101M CE04KW2A220M CE04KW1H470M	ELECTRO 470UF 35WV CHIP C 0.22UF Z ELECTRO 100UF 25WV ELECTRO 22UF 100WV ELECTRO 47UF 50WV		

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KRF-V5020/V6020/V7020/VR-305/306/355  
PARTS LIST

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
C320			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C326			CE04KW1C470M	ELECTRO 47UF 16WV		
C327			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C330			CE04KW1C100M	ELECTRO 10UF 16WV		
C350			CE04KW1A101M	ELECTRO 100UF 10WV		
C351, 352			CE04KW1H100M	ELECTRO 10UF 50WV		
C359~363			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C400			CE04KW1C330M	ELECTRO 33UF 16WV		
C401~410			CK73EB1H104K	CHIP C 0.10UF K		
C411, 412			CE04KW1C220M	ELECTRO 22UF 16WV		
C413			CK73EB1H104K	CHIP C 0.10UF K		
C414			CK73FB1C104K	CHIP C 0.10UF K		
C501~503			CK45FF1H103Z	CERAMIC 0.010UF Z		
C504			CK73FB1H103K	CHIP C 0.010UF K		
C505			CK45FF1H103Z	CERAMIC 0.010UF Z		
C506			CK45FB1H102K	CERAMIC 1000PF K		
C507			CK45FF1H103Z	CERAMIC 0.010UF Z		
C508, 509			CE04KW1A101M	ELECTRO 100UF 10WV		
C510			CC45FSL1H331J	CERAMIC 330PF J		
C511			CK73FB1H103K	CHIP C 0.010UF K		
C512, 513			CK45FF1H103Z	CERAMIC 0.010UF Z		
C514			CK73FB1H103K	CHIP C 0.010UF K		
C515			CK45FB1H561K	CERAMIC 560PF K		
C516			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C517			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C518			CK73FB1H103K	CHIP C 0.010UF K		
C519~521			CK45FF1H103Z	CERAMIC 0.010UF Z		
C522			CK45FF1H103Z	CERAMIC 0.010UF Z		
C523			CE04KW1A101M	ELECTRO 100UF 10WV		
C524			CK45FF1H103Z	CERAMIC 0.010UF Z		
C525			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C526			C90-3214-05	ELECTRO 100UF 6.3WV		
C527			CC73FCH1H470J	CHIP C 47PF J		
C528			CC73FCH1H180J	CHIP C 18PF J		
C529, 530			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C531			CK73FB1H103K	CHIP C 0.010UF K		
C532			CK73FB1H102K	CHIP C 1000PF K		
C533			CK73EB1H102K	CHIP C 1000PF K		
C533			CK73EB1H102K	CHIP C 1000PF K		
C534			C90-1827-05	ELECTRO 0.047F 5.5WV		
C535			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C536			CK45FB1H102K	CERAMIC 1000PF K		
C537			CC45FSL1H101J	CERAMIC 100PF J		
C538			CK73FSL1H101J	CHIP C 100PF J		
C540			CC45FSL1H101J	CERAMIC 100PF J		
CN1			E40-4299-05	PIN ASSY		
CN2			E40-4248-05	PIN ASSY		
CN7			E40-8196-05	PIN ASSY		
CN8			E40-8260-05	FLAT CABLE CONNECTOR		
CN9			E40-8251-05	FLAT CABLE CONNECTOR		
CN10			E40-9848-05	PIN ASSY		
CN11			E40-3247-05	PIN ASSY		
CN12			E40-3249-05	PIN ASSY		
CN51			E40-8259-05	FLAT CABLE CONNECTOR		
CN53			E40-8250-05	FLAT CABLE CONNECTOR		

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
J1			E63-0046-15	PHONO JACK		
J1			E63-0046-15	PHONO JACK		
J1			E63-0172-05	PHONO JACK		
J2			E63-0047-15	PHONO JACK		
J2			E63-0047-15	PHONO JACK		
J2			E63-0173-05	PHONO JACK		
J3, 4			E63-1014-05	PHONO JACK		
J3, 4			E63-1014-05	PHONO JACK		
J3, 4			E63-1017-05	PHONO JACK		
J5			E63-1018-05	PHONO JACK		
J5			E63-1050-05	PHONO JACK		
J5			E63-1050-05	PHONO JACK		
J6			E63-1019-05	PHONO JACK		
J6			E63-1051-05	PHONO JACK		
J6			E63-1051-05	PHONO JACK		
J7			E63-0046-15	PHONO JACK		
J7			E63-0046-15	PHONO JACK		
J7			E63-0172-05	PHONO JACK		
J8			E70-0046-05	LOCK TERMINAL BOARD		
J8			E70-0082-05	LOCK TERMINAL BOARD		
J9			E63-0114-05	PHONO JACK		
J10			E70-0047-05	LOCK TERMINAL BOARD		
J10			E70-0057-05	LOCK TERMINAL BOARD		
J10			E70-0094-05	LOCK TERMINAL BOARD		
J11			E63-0116-05	PHONO JACK		
W401~405			E29-1634-14	LEAD PLATE		
L1~5			L39-1373-05	PHASE COMPENSATION COIL		
L501			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L502			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
X1			L78-0244-05	RESONATOR (4MHZ)		
X501			L78-0290-05	RESONATOR (8MHZ)		
X502			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)		
R1, 2			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R3, 4			RK73FB2A273J	CHIP R 27K J 1/10W		
R5, 6			RK73FB2A101J	CHIP R 100 J 1/10W		
R13, 14			RK73FB2A473J	CHIP R 47K J 1/10W		
R17, 18			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R19, 20			RK73FB2A224J	CHIP R 220K J 1/10W		
R21~24			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R25, 26			RK73FB2A224J	CHIP R 220K J 1/10W		
R27, 28			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R29, 30			RK73FB2A224J	CHIP R 220K J 1/10W		
R31, 32			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R33, 34			RK73FB2A224J	CHIP R 220K J 1/10W		
R35, 36			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R37, 38			RK73FB2A224J	CHIP R 220K J 1/10W		
R39, 40			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R41, 42			RK73FB2A224J	CHIP R 220K J 1/10W		
R43			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R44			RK73FB2A103J	CHIP R 10K J 1/10W		
R45			RK73FB2A224J	CHIP R 220K J 1/10W		
R46			RK73FB2A392J	CHIP R 3.9K J 1/10W		

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia  
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 Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas  $\Delta$  indicates safety critical components.

KRF-V5020/V6020/V7020/VR-305/306/355

## PARTS LIST

MC-Service

Teile ohne **Parts No.** werden nicht geliefert.

17

**L** : Scandinavia      **K** : USA      **P** : Canada      **R** : Mexico      **C** : China      **I** : Malaysia  
**Y** : PX(Far East, Hawaii)      **T** : Europe      **E** : Europe      **G** : Germany      **V** : China(Shanghai)  
**Y** : AAFES(Europe)      **X** : Australia      **Q** : Russia      **H** : Korea      **M** : Other Areas      ▲ indicates safety critical components

Teile ohne **Parts No.** werden nicht geliefert.

18

**L:** Scandinavia    **K:** USA    **P:** Canada    **R:** Mexico    **C:** China    **I:** Malaysia  
**Y:** PX(Far East, Hawaii)    **T:** Europe    **E:** Europe    **G:** Germany    **V:** China(Shanghai)  
**Y:** AAFES(Europe)    **X:** Australia    **Q:** Russia    **H:** Korea    **M:** Other Areas    ▲ indicates safety critical components.

**KRF-V5020/V6020/V7020/VR-305/306/355  
PARTS LIST**



\* New Parts

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R255			RK73FB2A471J	CHIP R 470 J 1/10W		
R257, 258			R92-1866-05	METAL FILM 0.1 2W		
R259, 260			RK73FB2A333J	CHIP R 33K J 1/10W		
R261, 262			RK73FB2A333J	CHIP R 33K J 1/10W		
R261, 262			RK73FB2A333J	CHIP R 33K J 1/10W		
R261, 262			RK73FB2A363J	CHIP R 36K J 1/10W		
R261, 262			RK73FB2A363J	CHIP R 36K J 1/10W		
R263, 264			RK73FB2A471J	CHIP R 470 J 1/10W		
R265~267			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R268			RK73FB2A153J	CHIP R 15K J 1/10W		
R269, 270			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R271~273			RK73FB2A333J	CHIP R 33K J 1/10W		
R275, 276			RK73FB2A333J	CHIP R 33K J 1/10W		
R277			RK73FB2A163J	CHIP R 16K J 1/10W		
R277			RK73FB2A183J	CHIP R 18K J 1/10W		
R279, 280			RK73FB2A163J	CHIP R 16K J 1/10W		
R279, 280			RK73FB2A183J	CHIP R 18K J 1/10W		
R281~283			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R284			RK73FB2A123J	CHIP R 12K J 1/10W		
R285			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R286			RK73FB2A223J	CHIP R 22K J 1/10W		
R287~291			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R292~295			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R300			RD14NB2E1R0J	RD 1 J 1/4W		
R304, 305			RK73FB2A513J	CHIP R 51K J 1/10W		
R306, 307			RK73FB2A273J	CHIP R 27K J 1/10W		
R308			RD14NB2E4R7J	RD 4.7 J 1/4W		
R309			RD14NB2E103J	RD 10K J 1/4W		
R311			RK73FB2A513J	CHIP R 51K J 1/10W		
R312			RK73FB2A273J	CHIP R 27K J 1/10W		
R315, 316			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R317			RK73FB2A273J	CHIP R 27K J 1/10W		
R318			RS14KB3A681J	FL-PROOF RS 680 J 1W		
R320			RK73FB2A103J	CHIP R 10K J 1/10W		
R321			RK73FB2A473J	CHIP R 47K J 1/10W		
R322			RS14KB3D391J	FL-PROOF RS 390 J 2W		
R323			R92-1878-05	WIRE WOUND 68 K 5W		
R325			RS14KB3D391J	FL-PROOF RS 390 J 2W		
R326~330			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R331			RK73FB2A363J	CHIP R 36K J 1/10W		
R332			RK73FB2A751J	CHIP R 750 J 1/10W		
R333			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R361, 362			RS14KB3D391J	FL-PROOF RS 390 J 2W		
R363			RK73FB2A473J	CHIP R 47K J 1/10W		
R400			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R403~407			RK73EB2B220J	CHIP R 22 J 1/8W		
R408			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R409			RK73FB2A333J	CHIP R 33K J 1/10W		
R410, 411			RK73EB2B224J	CHIP R 220K J 1/8W		
R412, 413			RK73FB2A224J	CHIP R 220K J 1/10W		
R414			RK73FB2A103J	CHIP R 10K J 1/10W		
R416			RK73FB2A683J	CHIP R 68K J 1/10W		
R417			RK73FB2A473J	CHIP R 47K J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R450, 451			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R452			RK73FB2A361J	CHIP R 360 J 1/10W		
R453			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R454			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R456			RK73FB2A473J	CHIP R 47K J 1/10W		
R457			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R458			RK73FB2A101J	CHIP R 100 J 1/10W		
R460, 461			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R462			RK73EB2B101J	CHIP R 100 J 1/8W		
R504			RK73FB2A103J	CHIP R 10K J 1/10W		
R514			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R515			RK73FB2A103J	CHIP R 10K J 1/10W		
R523			RD14NB2E1R0J	RD 1 J 1/4W		
R524, 525			RK73FB2A101J	CHIP R 100 J 1/10W		
R528			RK73FB2A101J	CHIP R 100 J 1/10W		
R529, 530			RK73FB2A473J	CHIP R 47K J 1/10W		
R536			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R545, 546			RK73FB2A103J	CHIP R 10K J 1/10W		
R552			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R556			RK73FB2A103J	CHIP R 10K J 1/10W		
R556			RK73FB2A103J	CHIP R 10K J 1/10W		
R568			RK73FB2A103J	CHIP R 10K J 1/10W		
R570			RK73FB2A103J	CHIP R 10K J 1/10W		
R577			RK73FB2A103J	CHIP R 10K J 1/10W		
R580			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R582			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R601, 602			RK73FB2A224J	CHIP R 220K J 1/10W		
R603			RK73FB2A473J	CHIP R 47K J 1/10W		
R606			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R607, 608			RD14NB2E1R0J	RD 1 J 1/4W		
W303			R92-0679-05	CHIP R 0 OHM		
W304~306			R92-0670-05	CHIP R 0 OHM		
W309, 310			R92-0679-05	CHIP R 0 OHM		
W312			R92-0679-05	CHIP R 0 OHM		
W314			R92-0679-05	CHIP R 0 OHM		
W315			R92-0670-05	CHIP R 0 OHM		
W316~318			R92-0679-05	CHIP R 0 OHM		
W501~502			R92-0670-05	CHIP R 0 OHM		
W501~506			R92-0670-05	CHIP R 0 OHM		
W503~506			R92-0670-05	CHIP R 0 OHM		
K1		*	S76-0045-15	MAGNETIC RELAY		
K2		*	S76-0045-15	MAGNETIC RELAY		
K3, 4		*	S76-0045-15	MAGNETIC RELAY		
S501~505			S70-0031-05	TACT SWITCH		
S507			S70-0031-05	TACT SWITCH		
S509~512			S70-0031-05	TACT SWITCH		
S514~516			S70-0031-05	TACT SWITCH		
S520, 521			S70-0031-05	TACT SWITCH		
S517			T99-0602-05	ROTARY ENCODER		
S518, 519			T99-0605-05	ROTARY ENCODER		
D3, 4			HZS5.1N(B2)	ZENER DIODE		
D3, 4			MTZJ5.1(B)	ZENER DIODE		

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KRF-V5020/V6020/V7020/MR-305/306/355

## PARTS LIST

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
D3, 4			RD5.1ES(B2)	ZENER DIODE		
D5, 6			HZS6.8N(B2)	ZENER DIODE		
D5, 6			MTZJ6.8(B)	ZENER DIODE		
D5, 6			RD6.8ES(B2)	ZENER DIODE		
D7			HZS5.1N(B2)	ZENER DIODE		
D7			MTZJ5.1(B)	ZENER DIODE		
D7			RD5.1ES(B2)	ZENER DIODE		
D8			HZS11N(B2)	ZENER DIODE		
D8			MTZJ11(B)	ZENER DIODE		
D8			RD11ES(B2)	ZENER DIODE		
D10			HZS8.2N(B2)	ZENER DIODE		
D10			MTZJ8.2(B)	ZENER DIODE		
D10			RD8.2ES(B2)	ZENER DIODE		
D11			HZS7.5N(B2)	ZENER DIODE		
D11			MTZJ7.5(B)	ZENER DIODE		
D11			RD7.5ES(B2)	ZENER DIODE		
D12, 13			HZS8.2N(B2)	ZENER DIODE		
D12, 13			MTZJ8.2(B)	ZENER DIODE		
D12, 13			RD8.2ES(B2)	ZENER DIODE		
D14, 15			HZS10N(B2)	ZENER DIODE		
D14, 15			MTZJ10(B)	ZENER DIODE		
D14, 15			RD10ES(B2)	ZENER DIODE		
D19			MA111	DIODE	67	
D20			MA111	DIODE		
D21~23			MA111	DIODE		
D24			HZS4.7N(B2)	ZENER DIODE		
D24			MTZJ4.7(B)	ZENER DIODE		
D24			RD4.7ES(B2)	ZENER DIODE		
D25			HZS3.3N(B2)	ZENER DIODE		
D25			MTZJ3.3(B)	ZENER DIODE		
D25			RD3.3ES(B2)	ZENER DIODE		
D26			MA111	DIODE		
D31			D4SBL20UF03	DIODE	ETQ	
D32			D4SBL20UF03	DIODE	YMXCIV	
D32			D4SBL20UF03	DIODE		
D37, 38			HZS16N(B2)	ZENER DIODE		
D37, 38			MTZJ16(B)	ZENER DIODE		
D37, 38			RD16ES(B2)	ZENER DIODE		
D39, 40			HZS18N(B2)	ZENER DIODE		
D39, 40			MTZJ18(B)	ZENER DIODE		
D39, 40			RD18ES(B2)	ZENER DIODE		
D50, 51			MA111	DIODE	MCXYIV	
D52			MA111	DIODE		
D53~55			MA111	DIODE		
D56			HZS7.5N(B2)	ZENER DIODE		
D56			MTZJ7.5(B)	ZENER DIODE		
D56			RD7.5ES(B2)	ZENER DIODE		
D59			MA111	DIODE	YMXCIV	
D504			HSS104A	DIODE	QMCXYI	
D504			HSS104A	DIODE	V	
D504			1SS133	DIODE	QMCXYI	
D504			1SS133	DIODE	V	
D505			HSS104A	DIODE	ET	
D505			1SS133	DIODE	ET	
D507			HSS104A	DIODE	Q	

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22

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
D507			1SS133	DIODE	Q	
D508, 509			HSS104A	DIODE		
D508, 509			1SS133	DIODE	ETQ	
D510			HSS104A	DIODE	YMXCIV	
D510			HSS104A	DIODE		
D510			1SS133	DIODE	ETQ	
D510			1SS133	DIODE	YMXCIV	
D511~521			HSS104A	DIODE		
D511~521			1SS133	DIODE	5	
D522			1SS133	DIODE		
D523			HSS104A	DIODE		
D523			1SS133	DIODE	EQT	
D524			HSS104A	DIODE	EQT	
D524			1SS133	DIODE		
D526			HZS6.2N(B2)	ZENER DIODE		
D526			MTZJ6.2(B)	ZENER DIODE		
D526			RD6.2ES(B2)	ZENER DIODE		
D529			HSS104A	DIODE		
D529			1SS133	DIODE		
Δ D530			S1ZB20(4072)	DIODE		
Δ D531			D4SBL20UF03	DIODE	KP	
D532, 533			MA111	DIODE		
ED51			11-MT-120GK	INDICATOR TUBE		
Δ IC1			TA7815SB	ANALOGUE IC		
Δ IC2			TA79015SB	ANALOGUE IC		
Δ IC3		*	STK411-220D	HYBRID IC	K2P2K2	
Δ IC3		*	STK411-220D	HYBRID IC	P3	
Δ IC3		*	STK411-220D	HYBRID IC	56	
Δ IC3		*	STK411-230D	HYBRID IC	K1P1	
Δ IC3		*	STK411-230D	HYBRID IC	7	
Δ IC3		*	STK411-230K	HYBRID IC	K1P1	
Δ IC4		*	STK410-020D	HYBRID IC	K2P2K3	
Δ IC4		*	STK410-020D	HYBRID IC	P3	
Δ IC4		*	STK410-020D	HYBRID IC	56	
Δ IC4		*	STK410-030D	HYBRID IC	K1P1	
Δ IC4		*	STK410-030D	HYBRID IC	7	
IC5			NJM4580ED	ANALOGUE IC		
IC6			TC9164AF	MOS-IC		
IC7			TC9162AF	MOS-IC		
IC8			NJM4565MD	IC(OP AMP X2)		
IC9			M62446FP	ANALOGUE IC		
IC12			NJM4565MD	IC(OP AMP X2)		
IC16		*	M62460FP	ANALOGUE IC		
IC17			BU4066BCF	ANALOGUE IC		
IC18			NJM2279M	ANALOGUE IC		
IC19			M5278L05M	ANALOGUE IC		
IC51			CXP82832-155Q	MI-COM IC	KP	
IC51			CXP82832-155Q	MI-COM IC	MCXYIV	
IC51			CXP82852-136Q	MI-COM IC	EQT	
IC52			X24C02S	MEMORY IC	EQT	
IC52			X24C02S	MEMORY IC		
IC53			S-80740AL-A4	IC(VOLTAGE DETECTOR)	YMXCIV	
IC54			SAA6579T	ANALOGUE IC	EQT	
IC54			SAA6579T/R	ANALOGUE IC	EQT	
IC55			NJM4565MD	IC(OP AMP X2)		

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## PARTS LIST

KRF-V5020/N6020/V7020/MR-305/306/355

## HOW TO READ THE PARTS LIST

Destination column has the abbreviation for the sale country and model. Alphabets mean the country. Numerals do model.

Example: X5 show KRF-V5020 for Australia market. "X" does all models for Australia.  
"5" does KRF-V5020, KRF-V5020(S), KRF-V5020E and KRF-V5020W.

## ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
ABB.		X	P	C	T	E	G	H	I
KRF-V5020	5	X5	-	-	T5	E1	-	-	I5
KRF-V5020(S)	5	-	-	-	-	E2	-	-	-
KRF-V5020E	5	-	-	-	-	E3	-	-	-
KRF-V5020W	5	-	-	-	-	-	-	-	-
KRF-V6020	6	X6	-	C6	-	E4	-	-	I6
KRF-V6020E	6	-	-	-	-	E5	-	-	-
KRF-V6020W	6	-	-	-	-	-	-	-	-
KRF-V7020	7	-	-	-	T7	E7	-	-	-
KRF-V7020E	7	-	-	-	-	E8	-	-	-
KRF-V7020W	7	-	-	-	-	-	-	-	-
VR-305	4	-	P2	-	-	-	-	-	-
VR-306	4	-	P1	-	-	-	-	-	-
VR-355	4	-	P3	-	-	-	-	-	-
MODEL	CNT	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
ABB.		R	Y	Q	L	V	K	M	
KRF-V5020	5	-	Y5	-	-	-	-	M5	-
KRF-V5020(S)	5	-	-	-	-	-	-	-	-
KRF-V5020E	5	-	-	-	-	-	-	-	-
KRF-V5020W	5	-	-	Q5	-	-	-	-	-
KRF-V6020	6	-	-	-	-	V6	-	M6	-
KRF-V6020E	6	-	-	-	-	-	-	-	-
KRF-V6020W	6	-	-	Q6	-	-	-	-	-
KRF-V7020	7	-	-	-	-	-	-	-	-
KRF-V7020E	7	-	-	-	-	-	-	-	-
KRF-V7020W	7	-	-	Q7	-	-	-	-	-
VR-305	4	-	-	-	-	-	K2	-	-
VR-306	4	-	-	-	-	-	K1	-	-
VR-355	4	-	-	-	-	-	K3	-	-

MC-Service

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23

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q1~11			2SC2878(B)	TRANSISTOR		
Q12			2SC4213(B)	TRANSISTOR		
Q13, 14			2SA1576A(R,S)	TRANSISTOR		
Q13, 14			2SA1586(Y,GR)	TRANSISTOR		
Q13, 14			2SA1611(M5,M6)	TRANSISTOR		
Q13, 14			2SB1218A(Q,R)	TRANSISTOR		
Q15~19			2SC1845(F,E)	TRANSISTOR		
Q20			DTC123JUA	DIGITAL TRANSISTOR		
Q21			DTC123JUA	DIGITAL TRANSISTOR		
Q22, 23			DTC123JUA	DIGITAL TRANSISTOR		
Q24, 25			2SC3722K(R,S)	TRANSISTOR		
Q26			2SA1255	TRANSISTOR		
Q29			2SC3944A(R,S)	TRANSISTOR		
Q30			2SA1123(S,T)	TRANSISTOR		
Q30			2SA1285A(F)	TRANSISTOR		
Q31			2SB1640	TRANSISTOR		
Q32~34			2SC3722K(R,S)	TRANSISTOR		
Q35			2SA1255	TRANSISTOR		
Q36, 37			2SC3722K(R,S)	TRANSISTOR		
Q40			2SC4213(B)	TRANSISTOR		
Q41			DTC113ZUA	DIGITAL TRANSISTOR		
Q41			UN5219	DIGITAL TRANSISTOR		
Q42			2SC4213(B)	TRANSISTOR		
Q501			2SC4081(R,S)	TRANSISTOR		
Q501			2SC4116(Y,GR)	TRANSISTOR		
Q501			2SC4177(L5,L6)	TRANSISTOR		
Q501			2SD1819A(Q,R)	TRANSISTOR		
Q503			2SC4081(R,S)	TRANSISTOR		
Q503			2SC4116(Y,GR)	TRANSISTOR		
Q503			2SC4177(L5,L6)	TRANSISTOR		
Q503			2SD1819A(Q,R)	TRANSISTOR		
TH1			PTH9C42BD471Q	POSITIVE RESISTOR		
A501			W02-2625-05	OPTIC RECEIVING MODULE		
SUB (X25-6222-70)						
C1			CE04KW1C100M	ELECTRO	10UF	16WV
C2			CC73FCH1H470J	CHIP C	47PF	J
C3, 4			CC73FSL1H221J	CHIP C	220PF	J
CN1			E40-3247-05	PIN ASSY		
CN2			E40-3249-05	PIN ASSY		
J1		*	E63-1072-05	PHONO JACK		
R1			RK73FB2A750J	CHIP R	75	J 1/10W
R2, 3			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R4, 5			RK73FB2A224J	CHIP R	220K	J 1/10W
W1			R92-0670-05	CHIP R	0 OHM	
S1		*	S68-0113-05	PUSH SWITCH		
D1			DA204U	DIODE		

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R : Mexico

C : China

I : Malaysia

Y : PX(Far East, Hawaii)

T : Europe

E : Europe

G : Germany

V : China(Shanghai)

Y : AAFES(Europe)

X : Australia

Q : Russia

H : Korea

M : Other Areas

Δ indicates safety critical components.

KRF-V5020/V6020/V7020/VR-305/306/355

PARTS LIST

# KRF-V5020/V6020/V7020/VR-305/306/355

## SPECIFICATIONS

### For Europe and England

#### AUDIO section

##### Rated power output during STEREO operation

KRF-V7020	
(DIN) 1 kHz, 0.7% at 4 $\Omega$ .....	100 W + 100 W
KRF-V6020, KRF-V5020	
(DIN) 1 kHz, 0.7% at 4 $\Omega$ .....	80 W + 80 W

##### Effective power output during SURROUND operation

KRF-V7020	
FRONT (1kHz, 0.7% T.H.D. at 4 $\Omega$ one channel driven)	100 W + 100 W
CENTER (1kHz, 0.7% T.H.D. at 4 $\Omega$ one channel driven)	100 W
SURROUND (1kHz, 0.7% T.H.D. at 4 $\Omega$ one channel driven)	100 W + 100 W
KRF-V6020, KRF-V5020	
FRONT (1kHz, 0.7% T.H.D. at 4 $\Omega$ one channel driven)	80 W + 80 W
CENTER (1kHz, 0.7% T.H.D. at 4 $\Omega$ one channel driven)	80 W
SURROUND (1kHz, 0.7% T.H.D. at 4 $\Omega$ one channel driven)	80 W + 80 W

Total harmonic distortion ..... 0.05% (1 kHz, 40W, 4  $\Omega$ )  
Frequency response

CD ..... 10 Hz ~ 60 kHz, +0 dB, -3.0 dB

##### Signal to noise ratio

PHONO (MM) ..... 75 dB (IHF'66)  
CD ..... 93 dB (IHF'66)

##### Input sensitivity / impedance

PHONO (MM) ..... 2.5 mV / 27 k $\Omega$   
CD ..... 200 mV / 47 k $\Omega$   
DVD 6CH (SUBWOOFER) ..... 200 mV / 10 k $\Omega$

##### Output level / impedance

TAPE REC ..... 200 mV / 2.2 k $\Omega$   
PRE OUT (CENTER, SURROUND) ..... 1 V / 2.2 k $\Omega$   
PRE OUT (SUBWOOFER) ..... 2 V / 2.2 k $\Omega$

##### Tone control

BASS .....  $\pm 10$  dB (at 100 Hz)  
TREBLE .....  $\pm 10$  dB (at 10 kHz)

### For other countries

#### AUDIO section

##### Effective power output during STEREO operation

KRF-V6020	
1kHz, 10% T.H.D., at 8 $\Omega$ .....	120 W + 120 W
KRF-V5020	
1kHz, 10% T.H.D., at 8 $\Omega$ .....	110 W + 110 W

##### Rated power output during STEREO operation

80 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation  
FRONT (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 80 W + 80 W  
CENTER (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 80 W  
SURROUND (1kHz, 10% T.H.D. at 8  $\Omega$  one channel driven) ..... 80 W + 80 W

Total harmonic distortion ..... 0.05%(1 kHz, 40W, 8  $\Omega$ )

##### Frequency response

CD ..... 10 Hz ~ 60 kHz, +0 dB, -3.0 dB

##### Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB  
CD ..... 93 dB

##### Input sensitivity / impedance

PHONO (MM) ..... 2.5 mV / 27 k $\Omega$   
CD ..... 200 mV / 47 k $\Omega$   
DVD 6CH (SUBWOOFER) ..... 200 mV / 10 k $\Omega$

##### Output level / impedance

TAPE REC ..... 200 mV / 2.2 k $\Omega$   
PRE OUT (SUBWOOFER) ..... 2 V / 2.2 k $\Omega$

##### Tone control

BASS .....  $\pm 10$  dB (at 100 Hz)  
TREBLE .....  $\pm 10$  dB (at 10 kHz)

#### VIDEO section

##### VIDEO inputs / outputs

VIDEO (composite) ..... 1 Vp-p / 75  $\Omega$

#### VIDEO section

##### VIDEO inputs / outputs

VIDEO (composite) ..... 1 Vp-p / 75  $\Omega$

#### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

##### Usable sensitivity (DIN, 75 $\Omega$ )

MONO ..... 1.2  $\mu$ V / 13.2 dBf (40 kHz DEV., S/N 26 dB)

STEREO ..... 45  $\mu$ V / 44.2 dBf (46 kHz DEV., S/N 46 dB)

##### Total harmonic distortion (DIN, 1 kHz)

MONO ..... 0.2% (65.2 dBf input)

STEREO ..... 0.8% (65.2 dBf input)

##### Signal to noise ratio (DIN weighted, 1 kHz)

MONO ..... 65 dB (40 kHz DEV., 65.2 dBf input)

STEREO ..... 60 dB (46 kHz DEV., 65.2 dBf input)

##### Stereo separation (DIN, 1 kHz)

..... 36 dB

##### Selectivity (DIN, $\pm 300$ kHz)

..... 64 dB

##### Frequency response (30 Hz ~ 15kHz)

..... +0.5 dB, -3.0 dB

#### AM tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz

##### Usable sensitivity (30% mod., S/N 20 dB)

..... 16  $\mu$ V / (600  $\mu$ V/m)

##### Signal to noise ratio (30% mod., 1 mV input)

..... 50 dB

#### GENERAL

Power consumption ..... 230 W

##### AC outlet

SWITCHED ..... 2 (total 150 W max.)

##### Dimensions

W : 440 mm

H : 144 mm

D : 400 mm

KRF-V6020, KRF-V5020 ..... D : 390 mm

##### Weight (Net)

KRF-V7020 ..... 9.2 kg

KRF-V6020 ..... 8.4 kg

KRF-V5020 ..... 8.2 kg

#### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

##### Usable sensitivity (MONO)

..... 1.6  $\mu$ V (75  $\Omega$ ) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)

##### 50dB quieting sensitivity

STEREO ..... 31.6  $\mu$ V (75  $\Omega$ ) / 41.2 dBf

##### Total harmonic distortion (1 kHz)

MONO ..... 0.6% (65 dBf input)

STEREO ..... 0.7% (65 dBf input)

##### Signal to noise ratio (1 kHz, 75 kHz DEV.)

MONO ..... 75 dB (65 dBf input)

STEREO ..... 68 dB (65 dBf input)

##### Stereo separation (1 kHz)

..... 38 dB

##### Selectivity ( $\pm 400$ kHz)

..... 50 dB

##### Frequency response

..... 30 Hz ~ 15kHz, +0.5 dB, -3.0 dB

#### AM tuner section

##### Tuning frequency range

For Australia

9 kHz step ..... 531 kHz ~ 1,602 kHz

Except for Australia

9 kHz step ..... 531 kHz ~ 1,602 kHz

10 kHz step ..... 530 kHz ~ 1,610 kHz

##### Usable sensitivity (30% mod., S/N 20 dB)

..... 16  $\mu$ V / (600  $\mu$ V/m)

##### Signal to noise ratio (30% mod. 1 mV input)

..... 50 dB

#### GENERAL

##### Power consumption

KRF-V6020 ..... 280 W

KRF-V5020 ..... 230 W

##### AC outlet

SWITCHED (for Australia) ..... 1 (total 150 W max.)

SWITCHED (except Australia) ..... 2 (total 150 W max.)

##### Dimensions

W : 440 mm

H : 144 mm

D : 400 mm

##### Weight (Net)

KRF-V6020 ..... 9.4 kg

KRF-V5020 ..... 8.2 kg

#### Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

# KRF-V5020/V6020/V7020/VR-305/306/355

## SPECIFICATIONS

### For U.S.A and Canada

#### AUDIO section

Rated power output during STEREO operation  
VR-306

100 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

VR-305, VR-355

80 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation

VR-306

FRONT (1kHz, 0.7% T.H.D. at 8  $\Omega$  one channel driven) ..... 100 W + 100 W  
CENTER (1kHz, 0.7% T.H.D. at 8  $\Omega$  one channel driven) ..... 100 W  
SURROUND (1kHz, 0.7% T.H.D. at 8  $\Omega$  one channel driven) ..... 100 W + 100 W

VR-305, VR-355

FRONT (1kHz, 0.7% T.H.D. at 8  $\Omega$  one channel driven) ..... 80 W + 80 W  
CENTER (1kHz, 0.7% T.H.D. at 8  $\Omega$  one channel driven) ..... 80 W  
SURROUND (1kHz, 0.7% T.H.D. at 8  $\Omega$  one channel driven) ..... 80 W + 80 W

Total harmonic distortion ..... 0.05% (1 kHz, 40W, 8  $\Omega$ )  
Frequency response

CD ..... 10 Hz ~ 60 kHz, +0 dB, -3.0 dB

Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB

CD ..... 93 dB

Input sensitivity / impedance

PHONO (MM) ..... 2.5 mV / 27 k $\Omega$

CD ..... 200 mV / 47 k $\Omega$

DVD 6CH (SUBWOOFER) ..... 200 mV / 10 k $\Omega$

Output level / impedance

TAPE REC ..... 200 mV / 2.2 k $\Omega$

PRE OUT (SUBWOOFER) ..... 2 V / 2.2 k $\Omega$

Tone control

BASS .....  $\pm 10$  dB (at 100 Hz)

TREBLE .....  $\pm 10$  dB (at 10 kHz)

#### VIDEO section

VIDEO inputs / outputs

VIDEO (composite) ..... 1 Vp-p / 75  $\Omega$

#### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO)

..... 1.6  $\mu$ V (75  $\Omega$ ) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)

50dB quieting sensitivity

STEREO ..... 31.6  $\mu$ V (75  $\Omega$ ) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.6% (65 dBf input)

STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)

MONO ..... 75 dB (65 dBf input)

STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB

Selectivity ( $\pm 400$  kHz) ..... 65 dB

Frequency response ..... 30 Hz ~ 15kHz, +0.5 dB, -3.0 dB

#### AM tuner section

Tuning frequency range

10 kHz step ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30% mod., S/N 20 dB)

..... 16  $\mu$ V / (600  $\mu$ V/m)

Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

#### GENERAL

Power consumption

VR-306 ..... 2.6 A

VR-305, VR-355 ..... 2.2 A

AC outlet

SWITCHED ..... 2 (total 150 W, 1.25 A max.)

Dimensions

W : 440 mm (17-5/16")

H : 144 mm (5-11/16")

D : 390 mm (15-3/8")

Weight (Net)

VR-306 ..... 8.8 kg (19.4 lb)

VR-305, VR-355 ..... 8.2 kg (18.1 lb)

#### Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

#### Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on General market(M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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